

Mouse Anti-HLA-C antibody

SLM-43093M

Product Name	HLA-C
Chinese Name	组织相容性蛋白 1 单克隆抗体
Alias	HLA-C; Major Histocompatibility Complex, Class I; HLA Class I Histocompatibility Antigen, C; D6S204; PSORS1; HLAC; Major Histocompatibility Antigen HLA-C; MHC Class I Antigen HLA-C; Leukocyte Antigen-C Alpha Chain; Psoriasis Susceptibility 1; Human Leukocyte Antigen C; HLA-C; HLC-C; MHC; HLAC_HUMAN.
Research Area	Cell biology
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	3C1-1A10
React Species	Human, WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:400-800,IF=1:100-500,Flow-Cyt=1ug/Test (Paraffin repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	4kDa
Cellular localization	The cell membrane
Form	Liquid
immunogen	Recombinant human HLA-C protein: 25-305/366
Lsotype	IgG
Purification	affinity purified by Protein A
Storage	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic



PubMed

[PubMed](#)

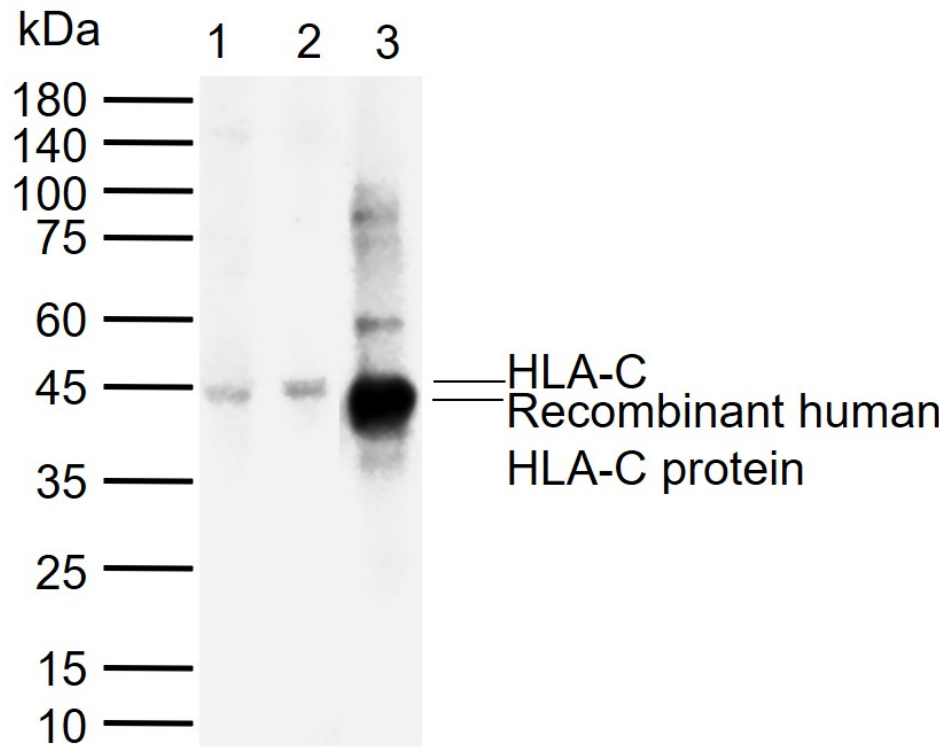
HLA-C belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. HLA class I molecules play a central role in the immune system by presenting peptides derived from the cytosol and nucleus. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and consists of seven exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains which bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane domain, and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the binding specificity of each class one molecule. Typing for these polymorphisms is routinely performed in organ transplantation and kidney transplantation. About 6000 HLA-C alleles have been described. The HLA system plays a major role in the occurrence and outcome of infectious diseases, including those caused by the human immunodeficiency virus (HIV), and the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The structural spike and the nucleocapsid proteins of the novel coronavirus SARS-CoV-2, which causes the disease 2019 (COVID-19), are reported to contain multiple Class I epitopes with predicted high binding affinity. Individual HLA genetic variation may help explain different immune responses to a virus in different populations.[provided by RefSeq, Aug 2020]

**Product
Detail**

SWISS:
P10321

Gene ID:
3107

**Product
Picture**



Sample:

Lane 1: Human HeLa cell lysates

Lane 2: Human HepG2 cell lysates

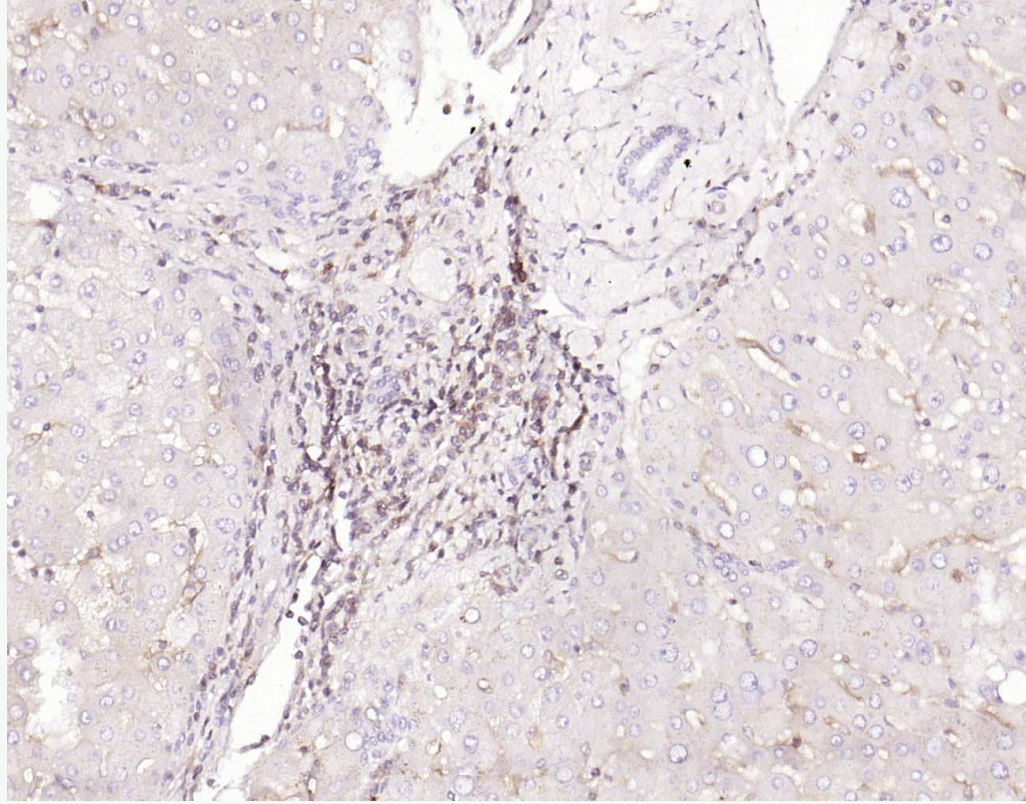
Lane 3: Recombinant human HLA-C & Beta-2-MG Heterodimer protein, C-His (HEK293)

Primary: Anti-HLA-C (SLM-43093M) at 1/1000 dilution

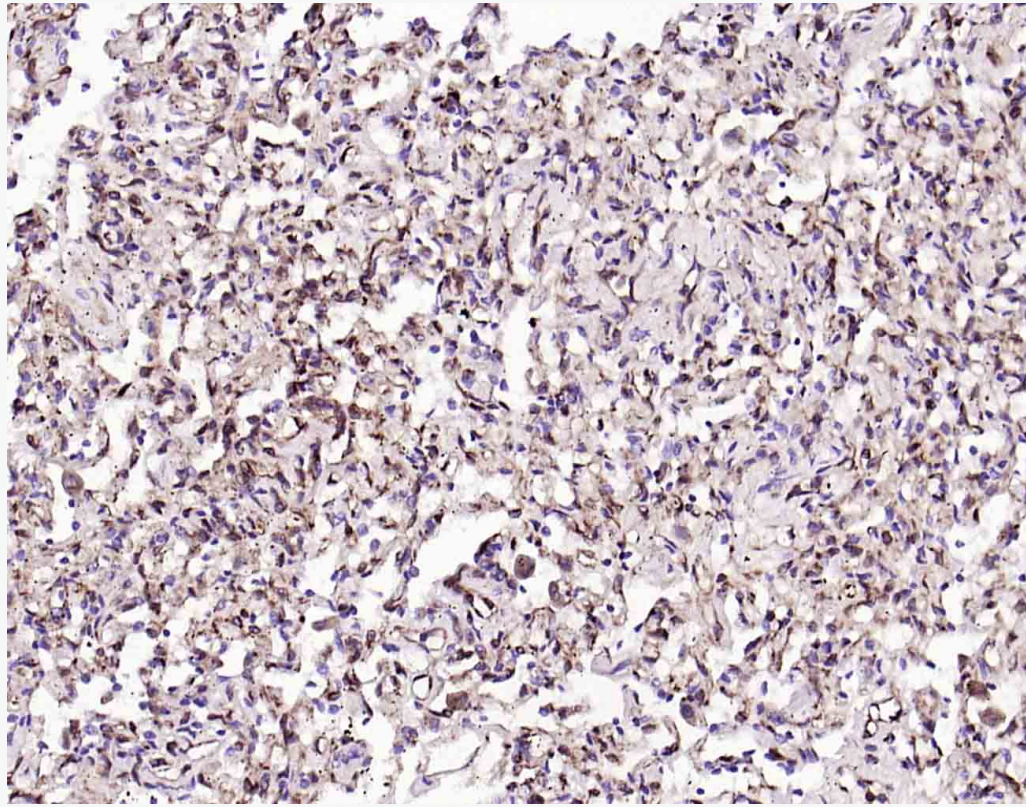
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 41 kDa

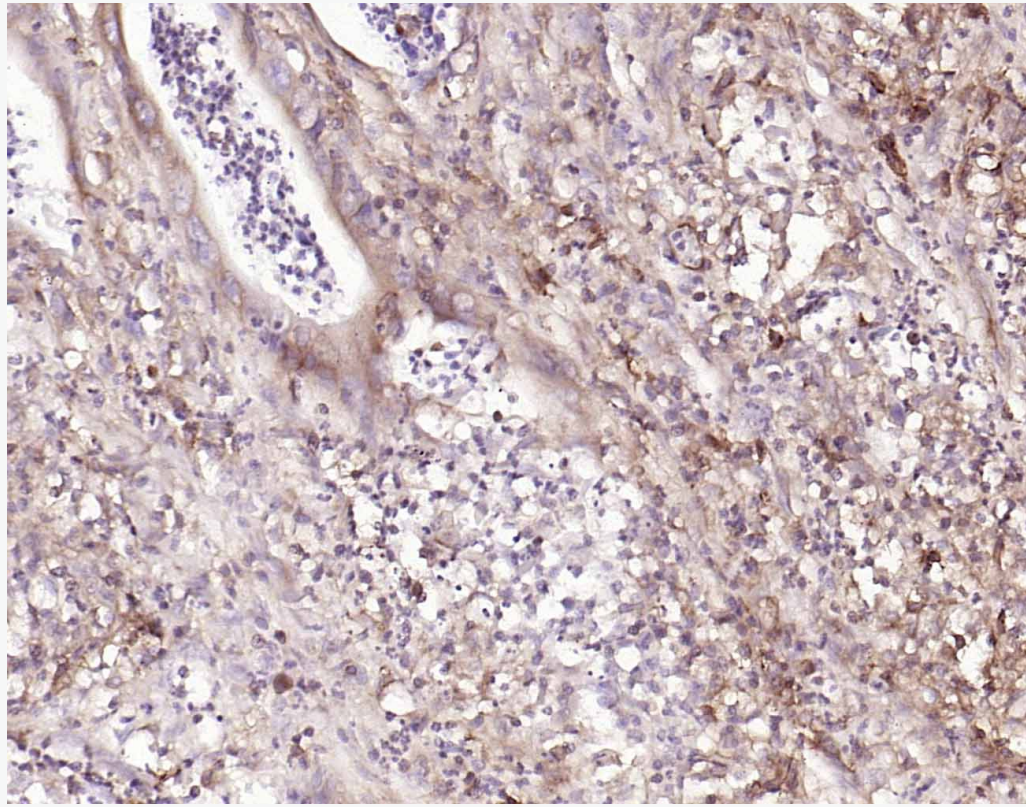
Observed band size: 45 kDa



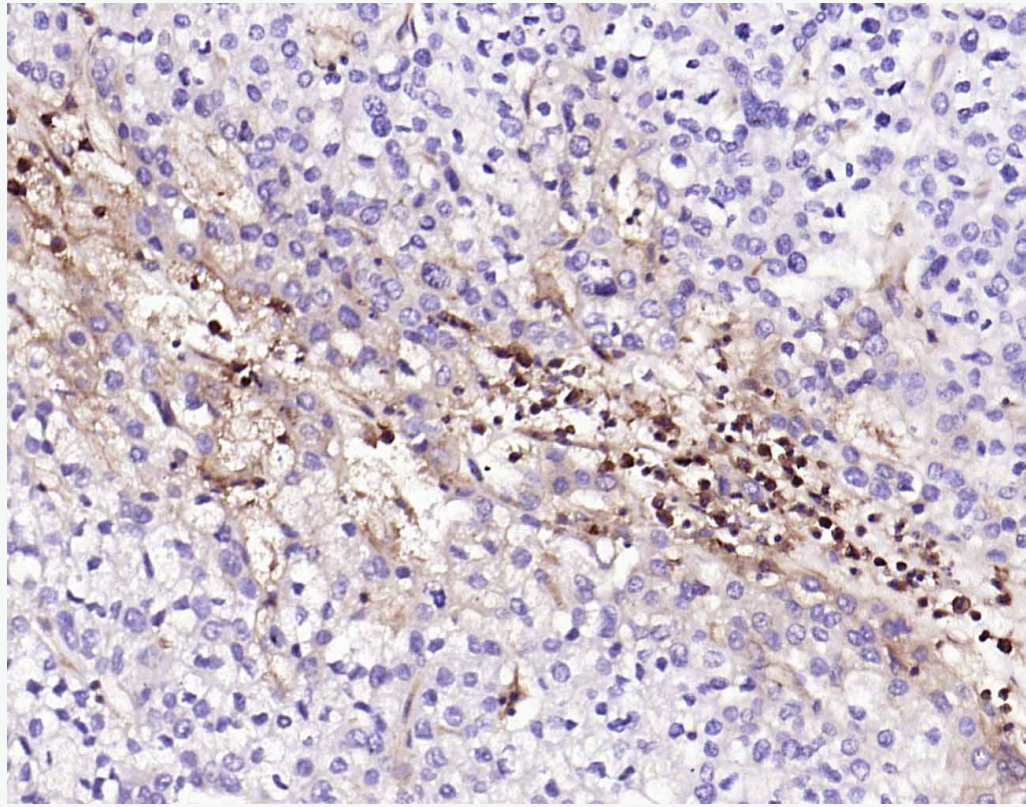
Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer for 1 hour at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody, Unconjugated (S100) overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



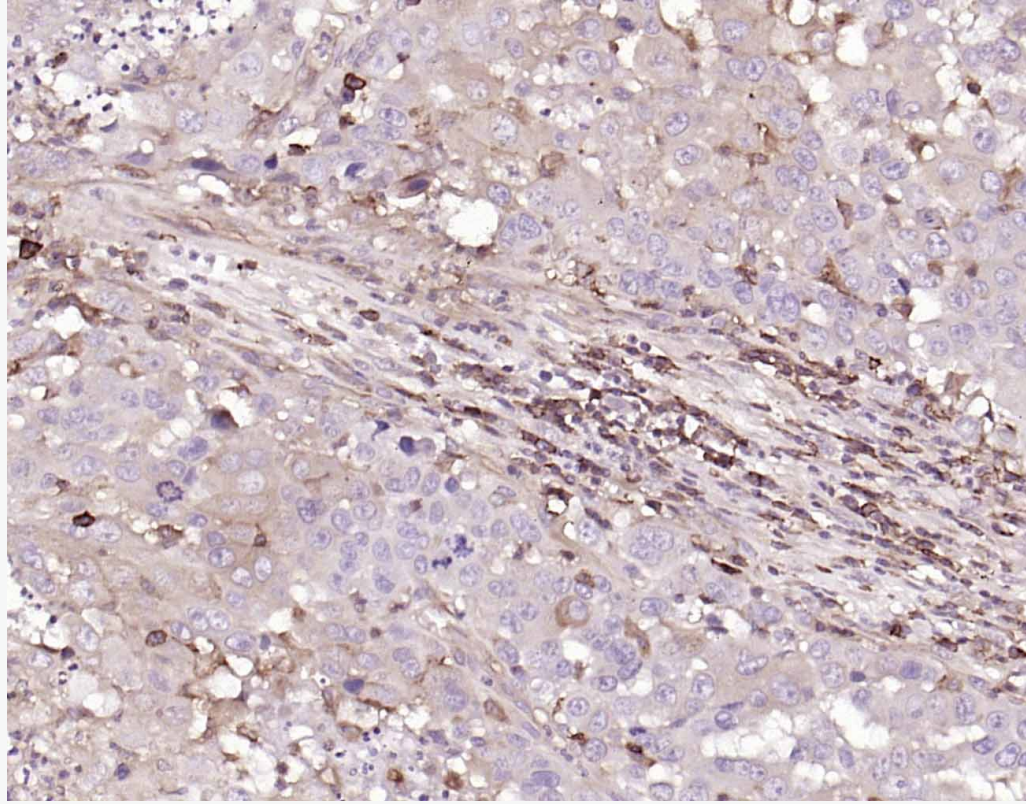
Paraformaldehyde-fixed, paraffin embedded (human lung); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (1% BSA, 0.5% Triton X-100, 0.1% Tween-20 in PBS) for 1 hour at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody, Unconjugated (SCL-1001) for overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



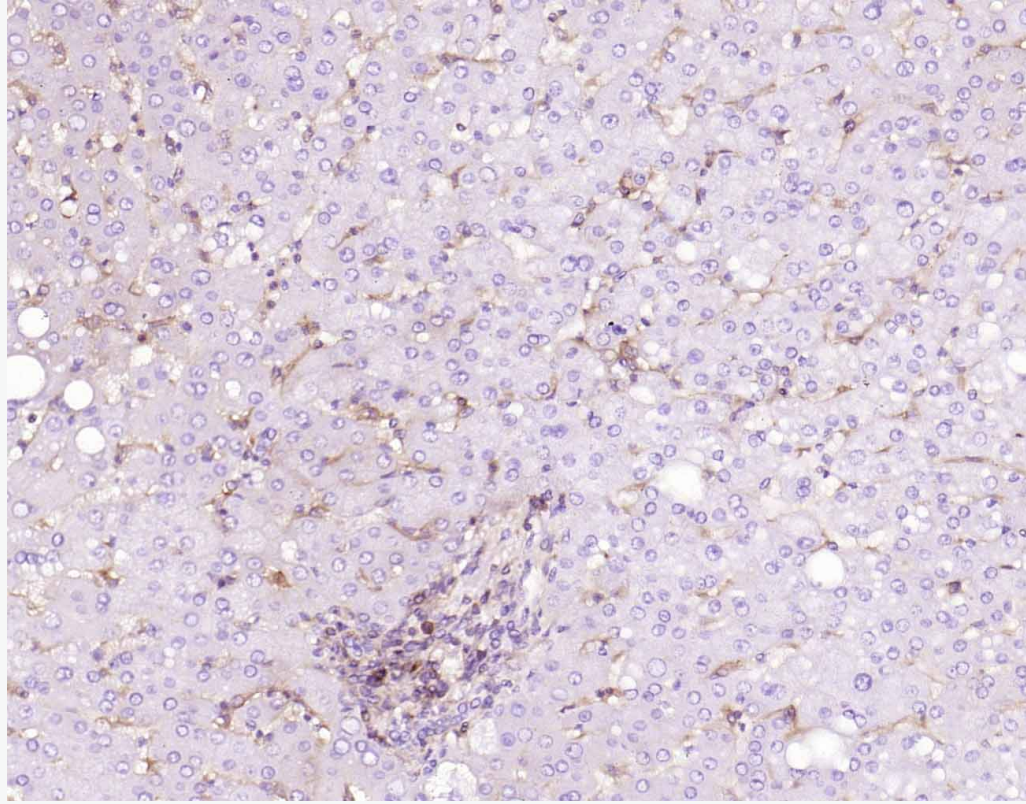
Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Block non-specific binding by normal goat serum at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody (SLM-43093M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(s) DAB staining.



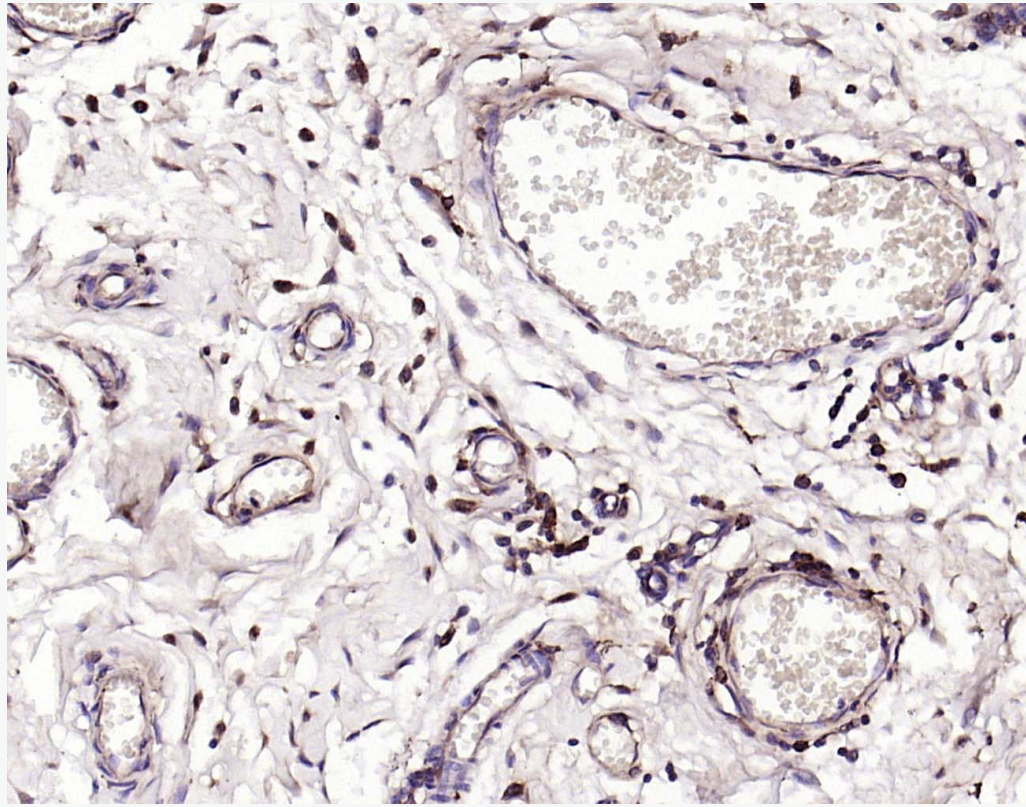
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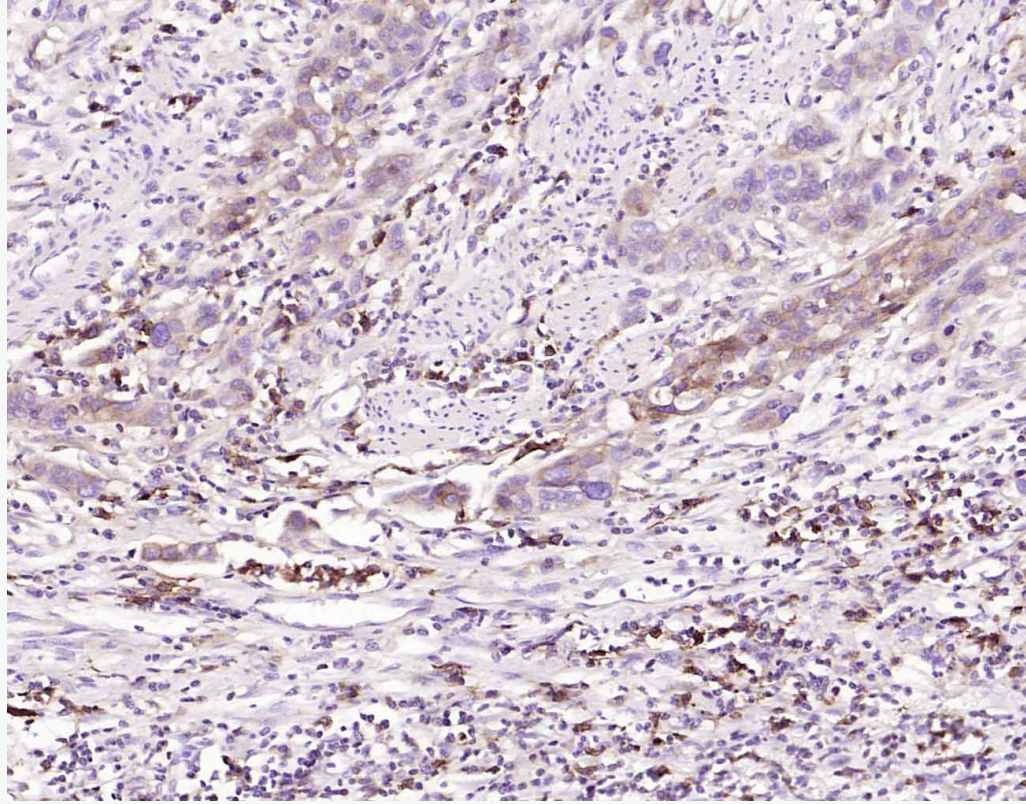
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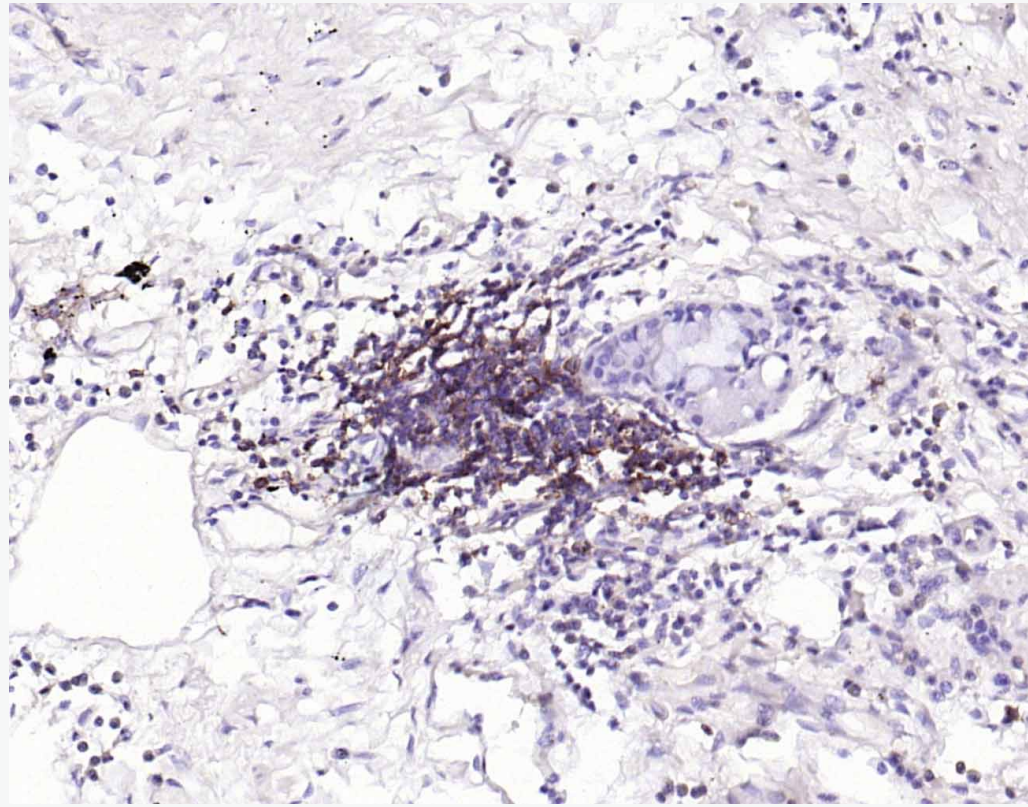
Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (PBS + 1% BSA + 0.1% Triton X-100) for 1 hour at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody, Unconjugated (SCL-1001) for 1 hour at 37°C overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



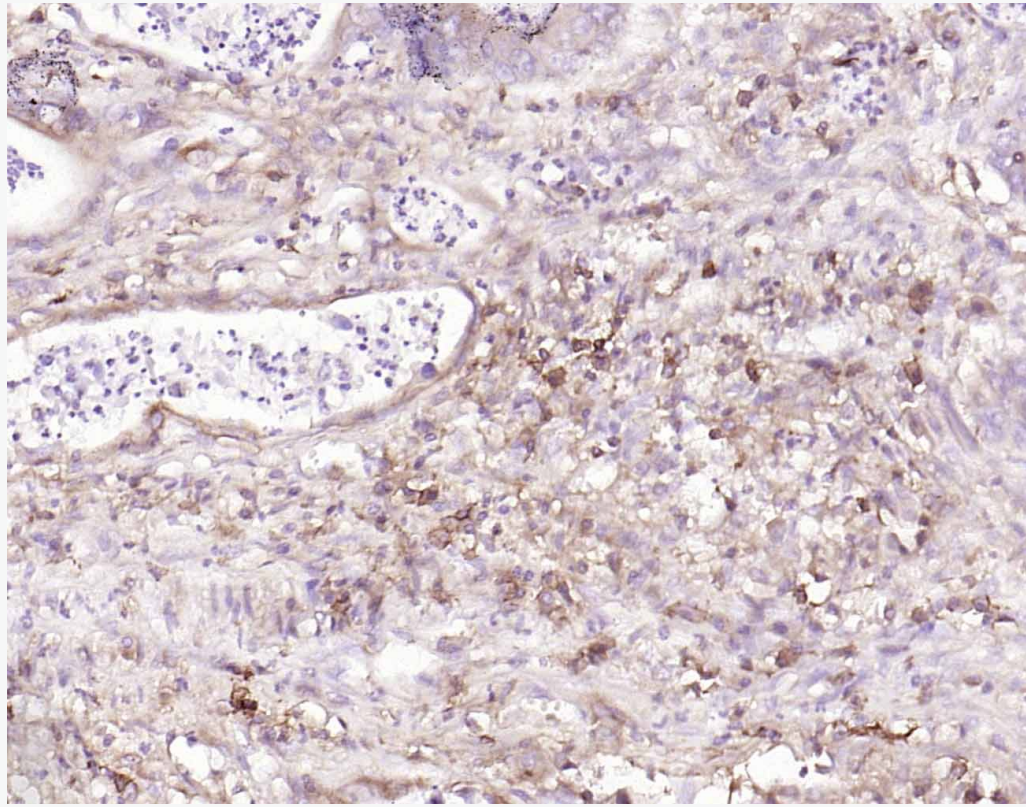
Paraformaldehyde-fixed, paraffin embedded (human skin); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (PBS + 1% BSA + 0.1% Triton X-100) for 1 hour at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody, Unconjugated (S100) for 1 hour at 37°C overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



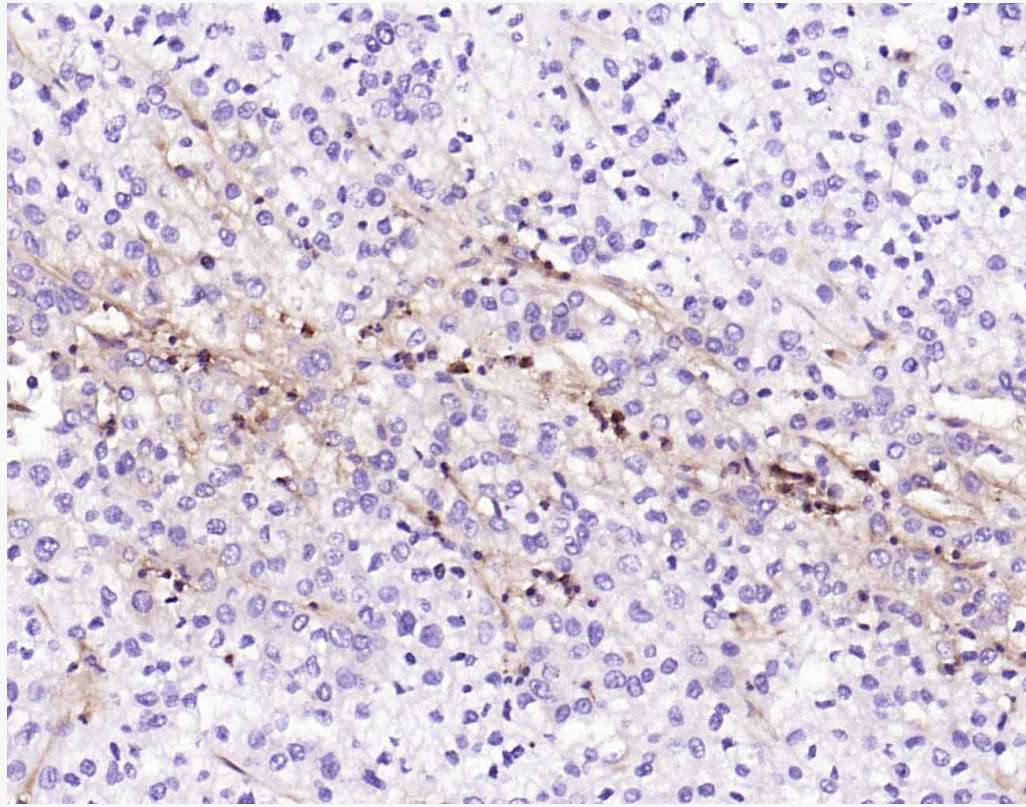
Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Block non-specific binding by normal goat serum at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody (SLM-43093M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(s) DAB staining.



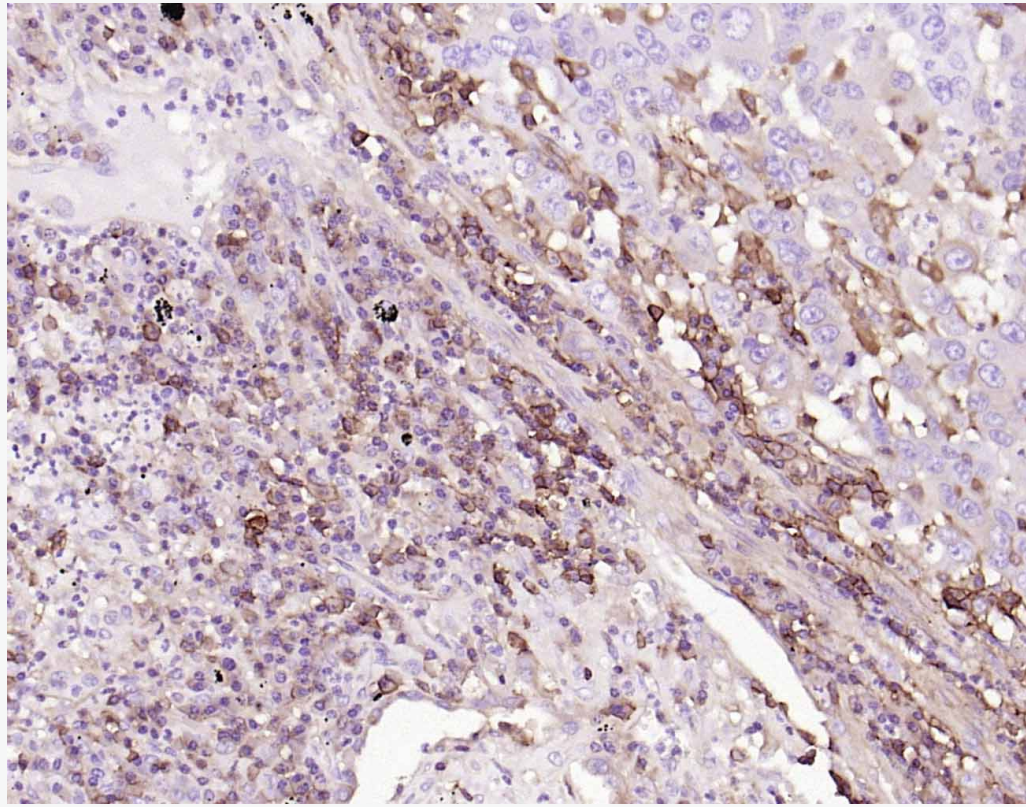
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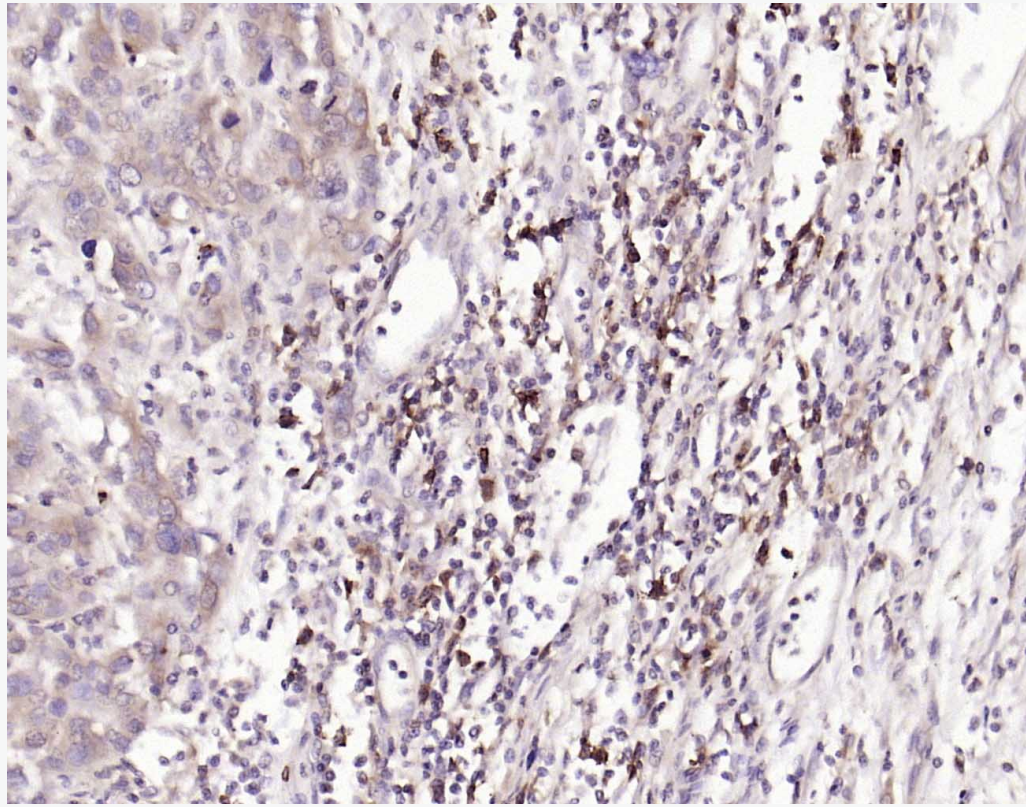
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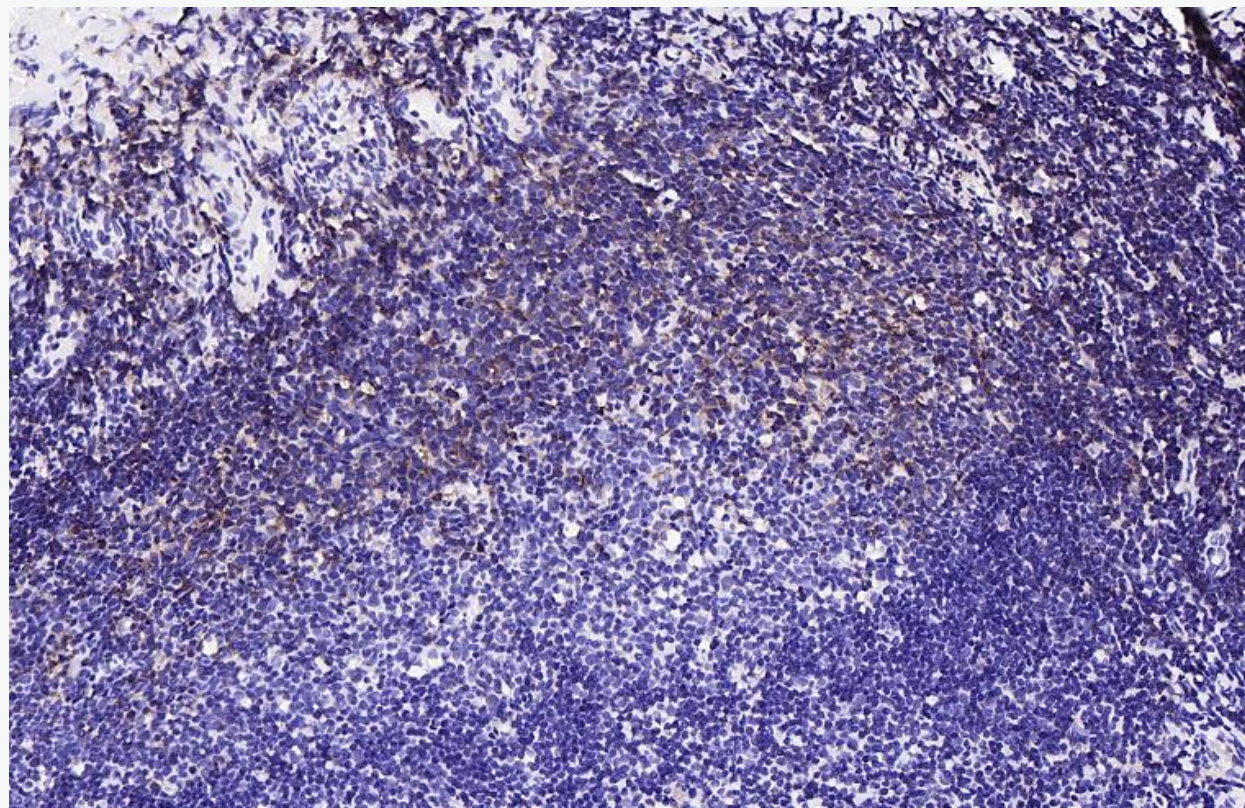
Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Block non-specific binding (normal goat serum) at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody (SLM-43093M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(s) DAB staining.



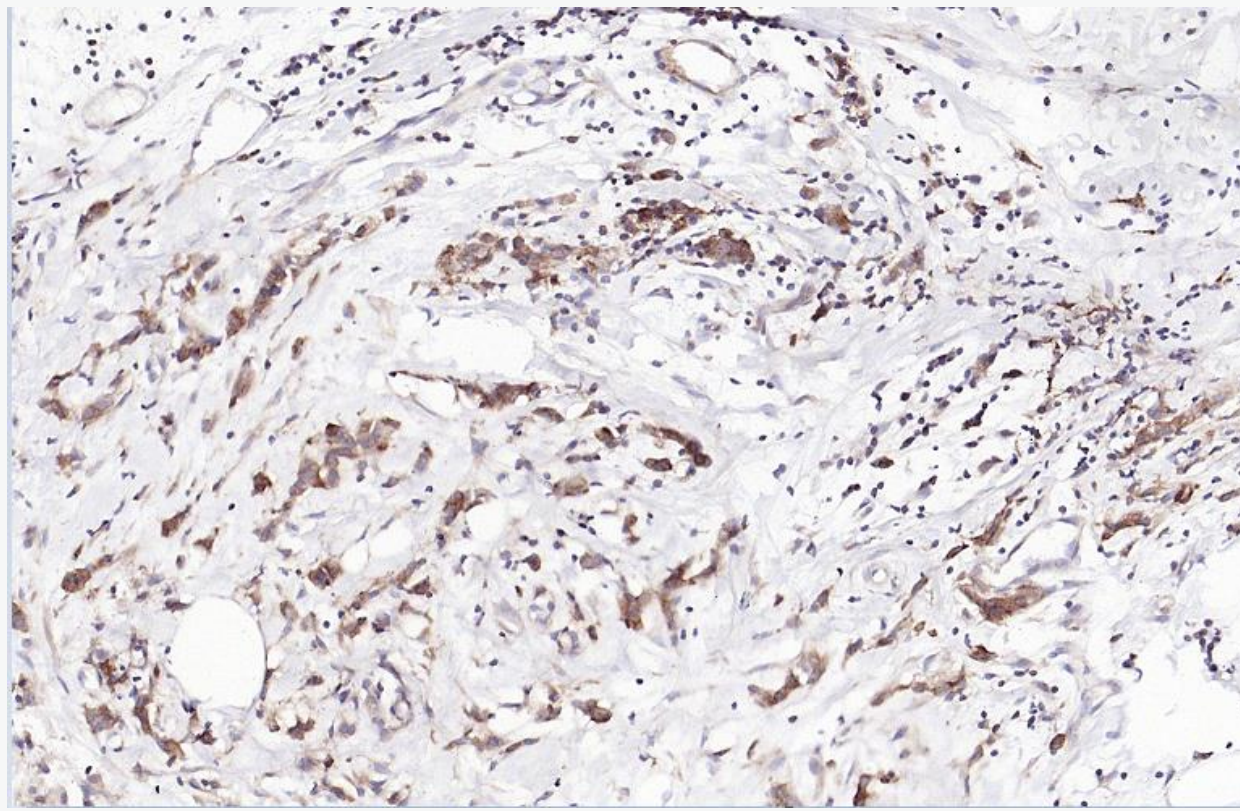
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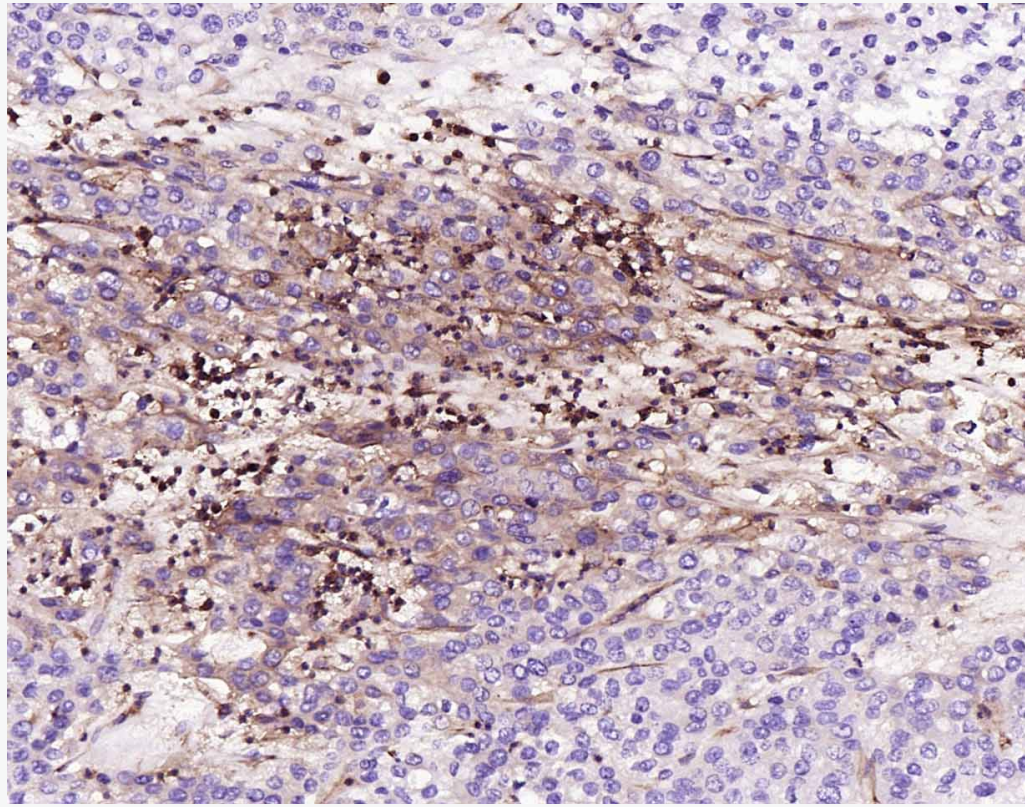
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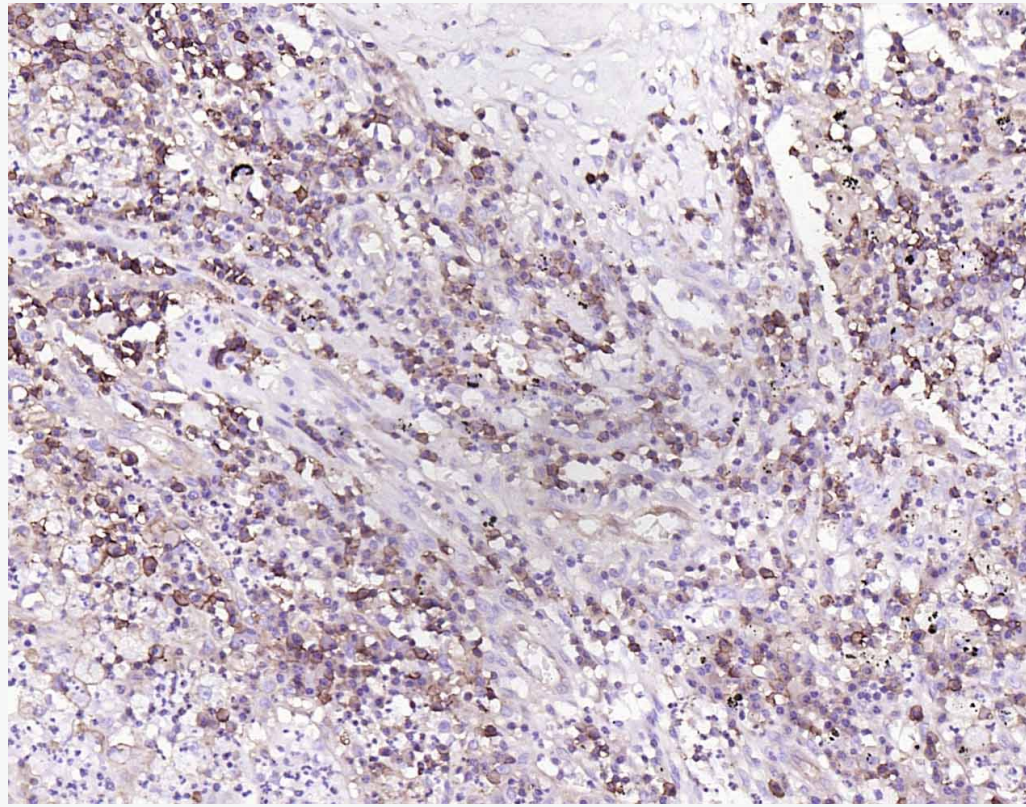
Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer for 1 hour at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody, Unconjugated (S100) overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



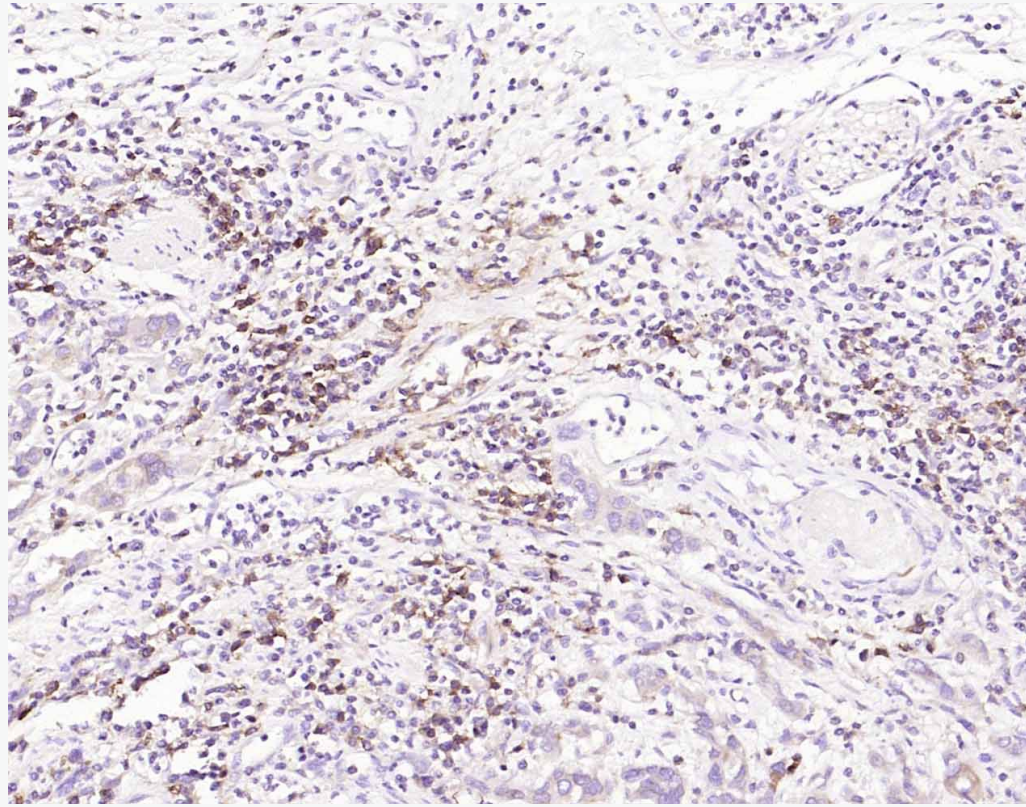
Paraformaldehyde-fixed, paraffin embedded (human breast carcinoma); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Block non-specific binding by normal goat serum at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody (SLM-43093M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(s) DAB staining.



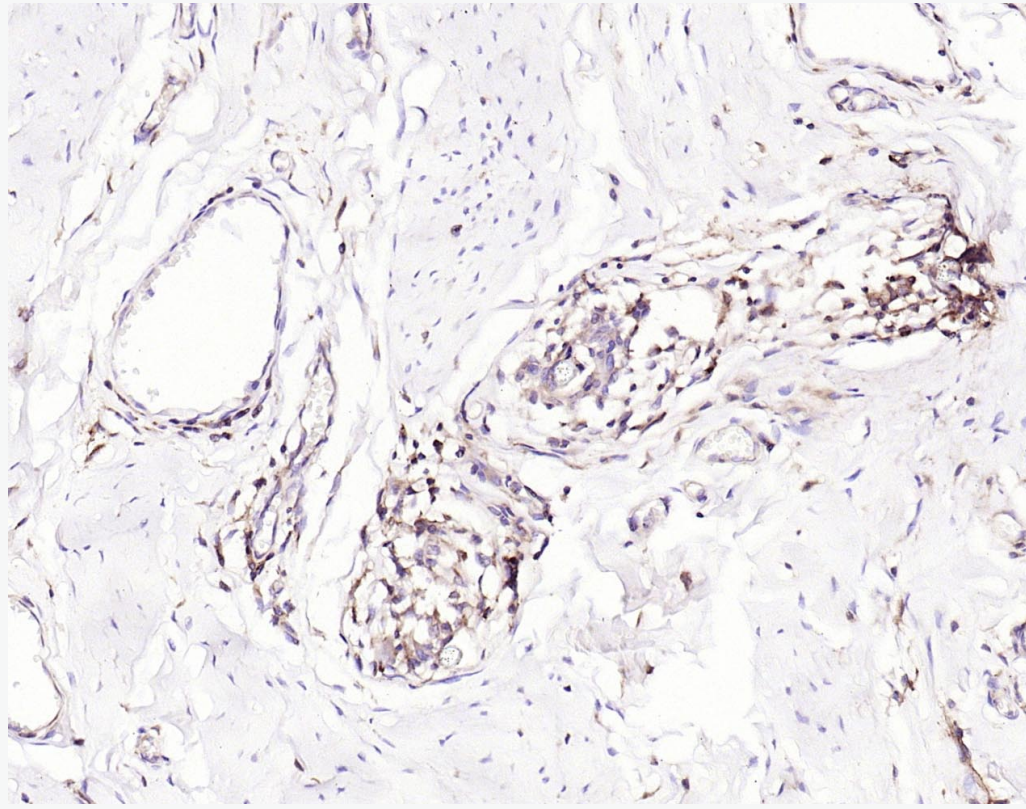
Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Block non-specific binding by normal goat serum at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody (SLM-43093M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse) (SUNLONG) DAB staining.



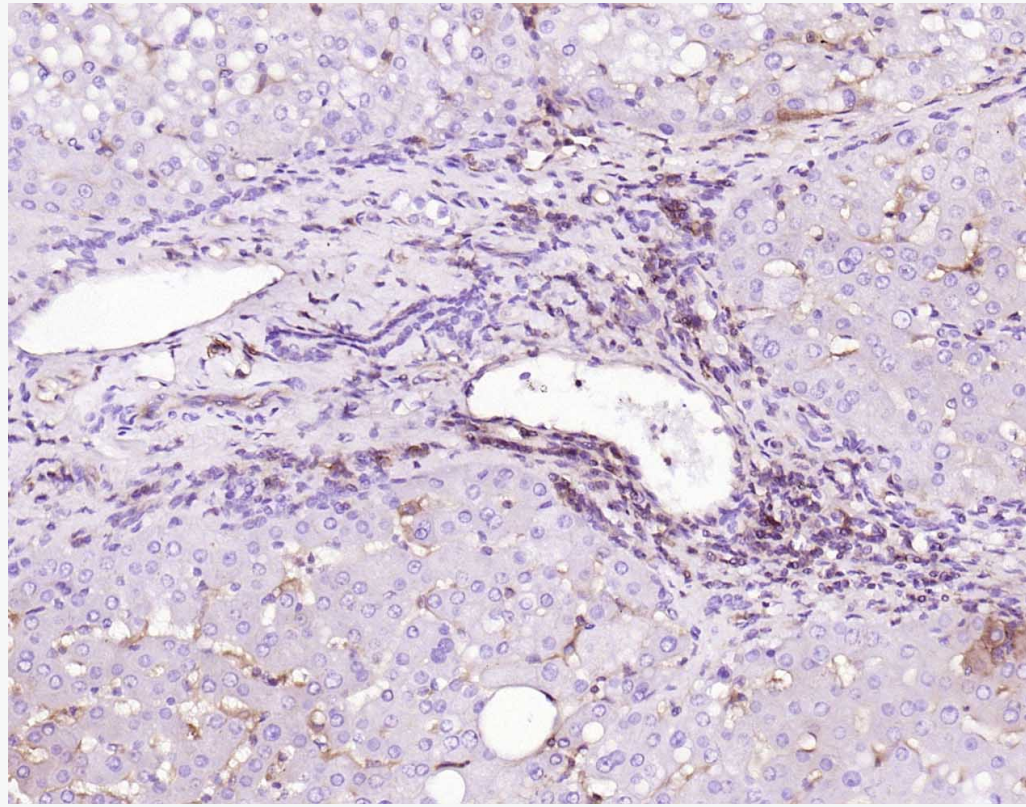
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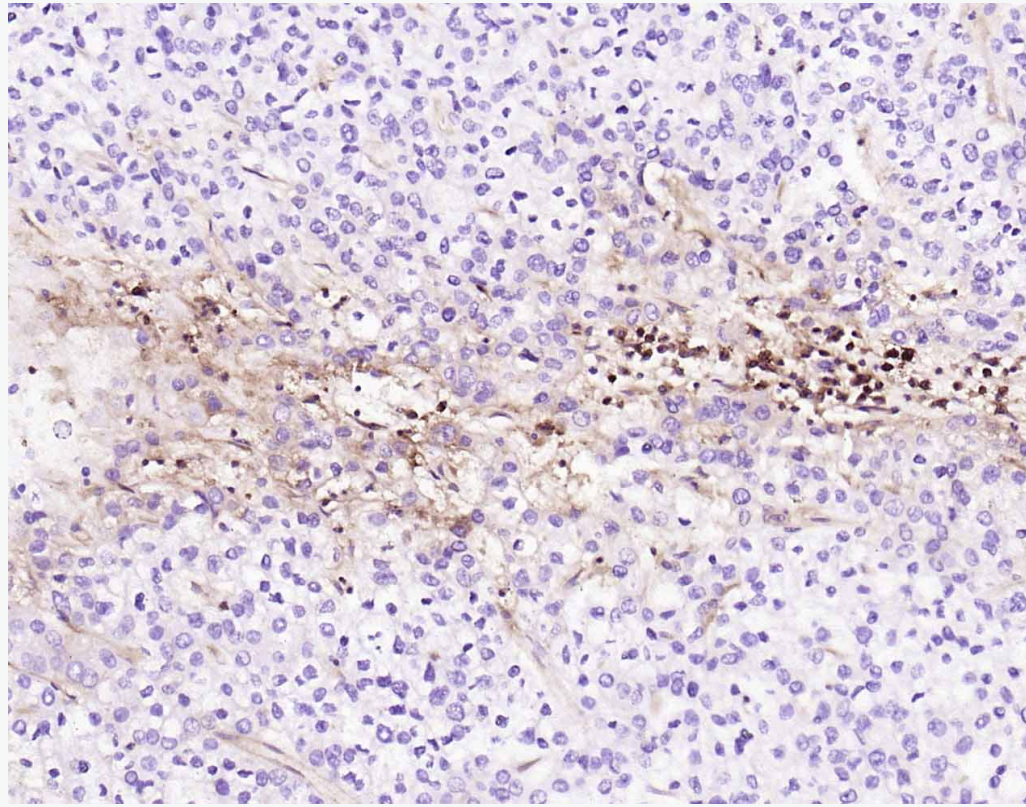
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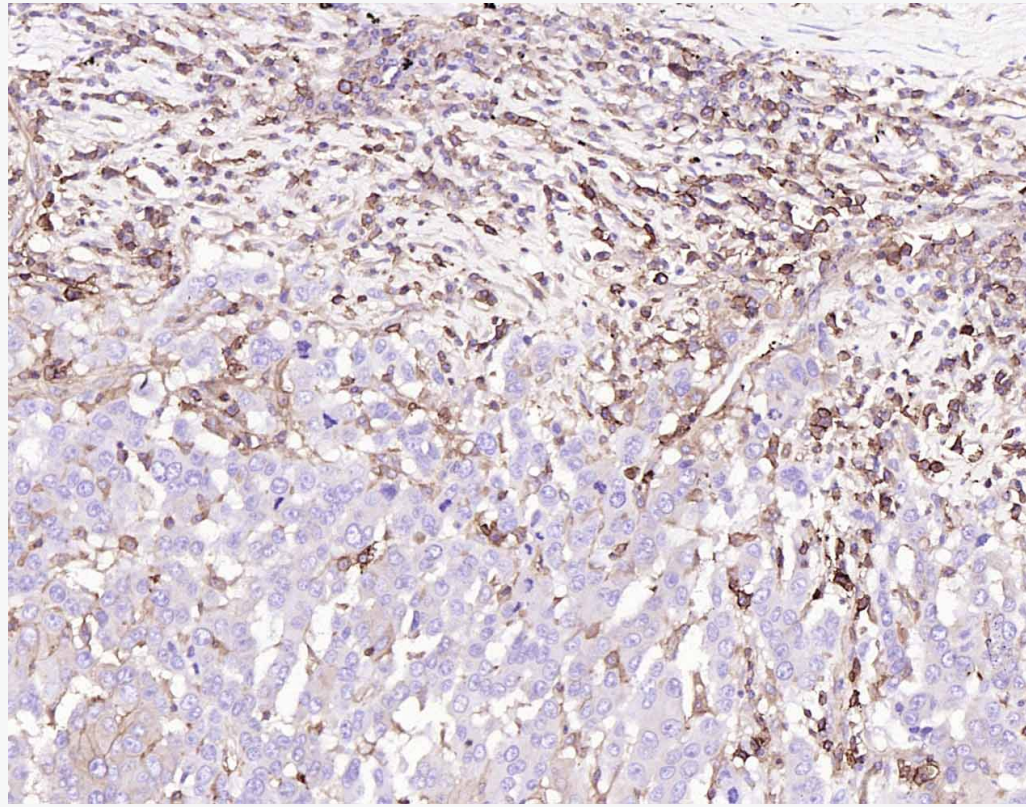
Paraformaldehyde-fixed, paraffin embedded (human skin); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (PBS + 1% BSA) for 1 hour at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody, Unconjugated (SCL-1001) for overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



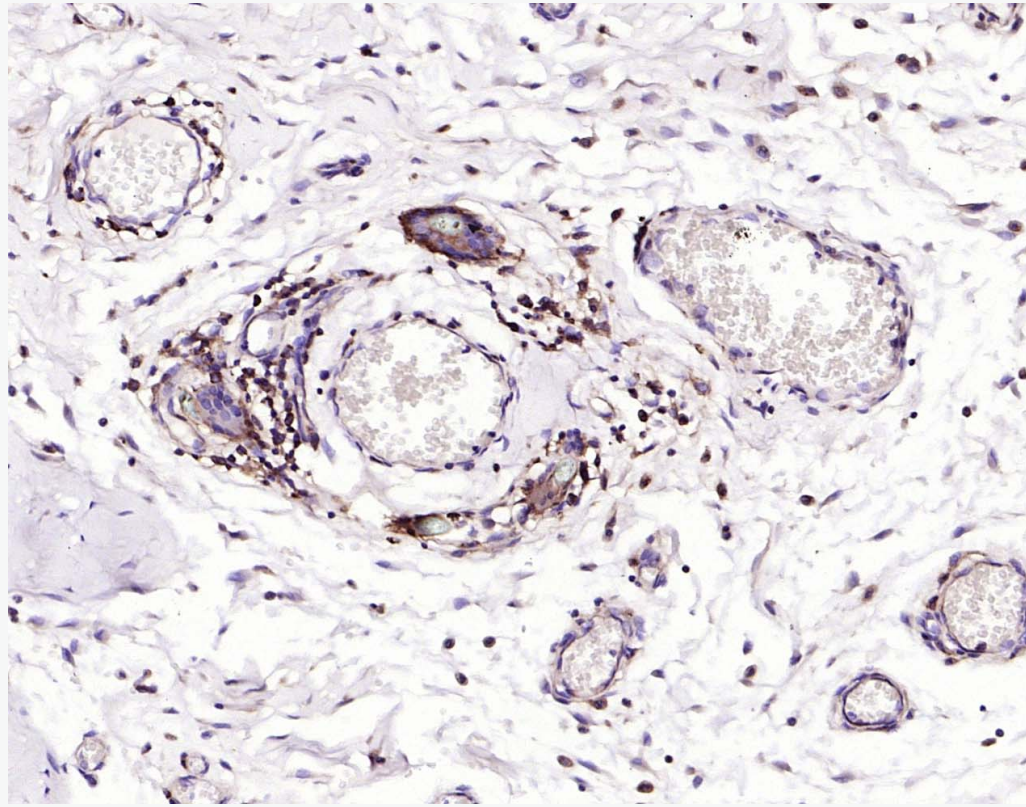
Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (PBS + 1% BSA) for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody, Unconjugated (S100) at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody, Unconjugated (S100) overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



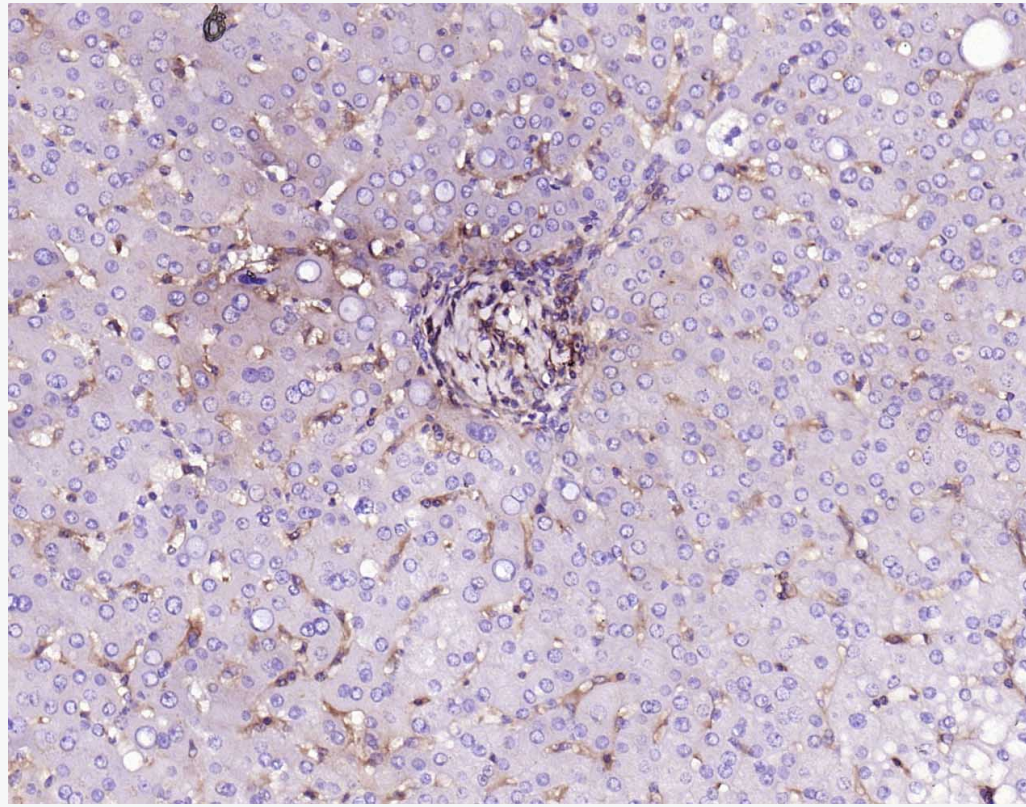
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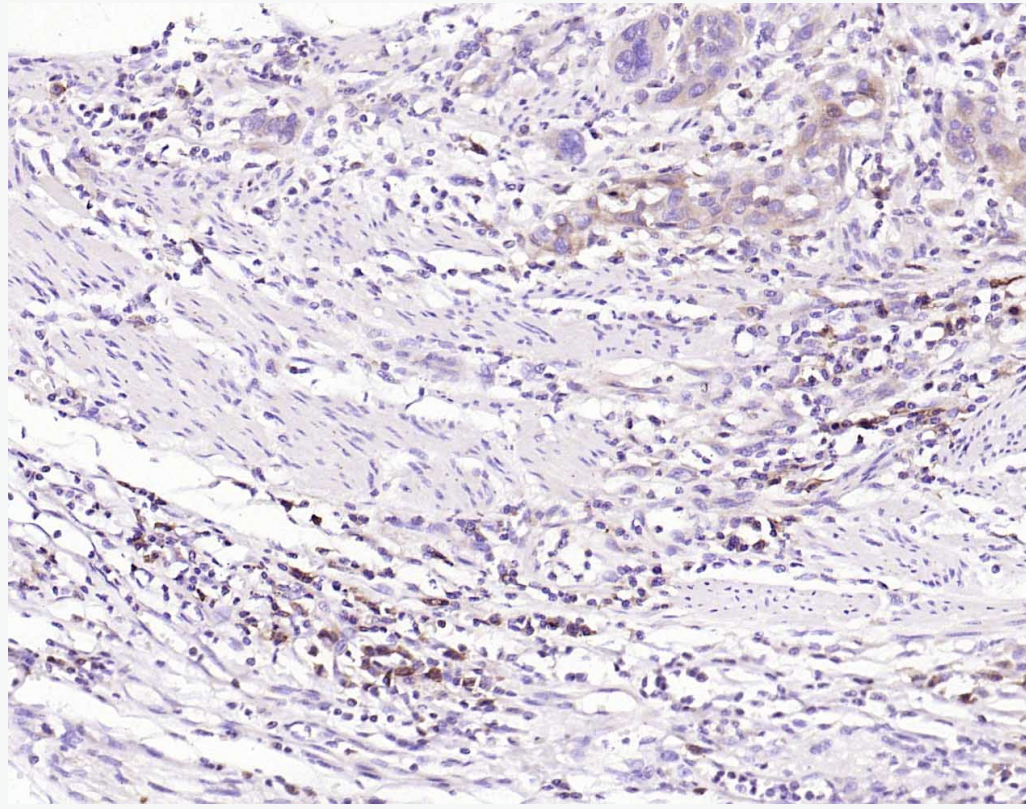
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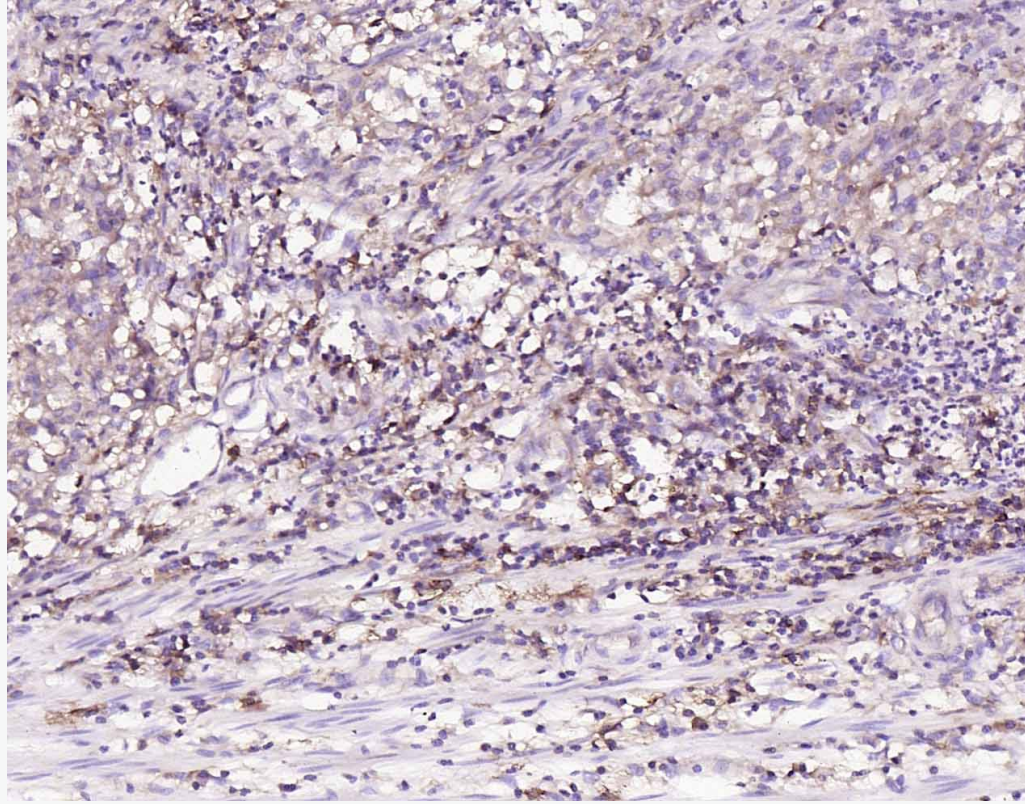
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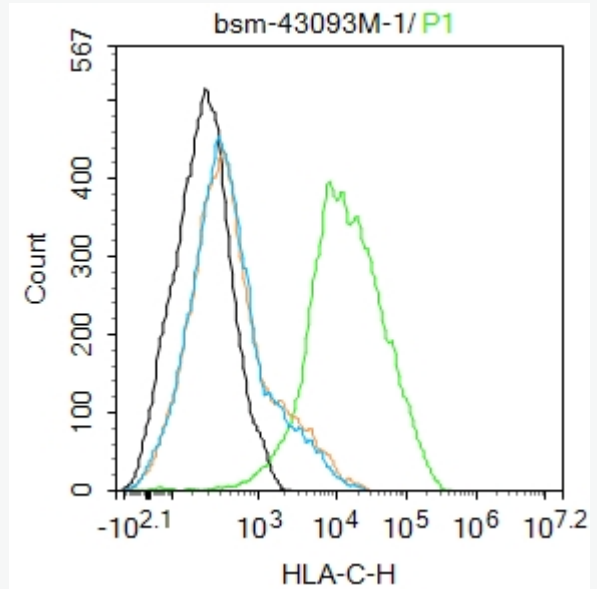
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Paraformaldehyde-fixed, paraffin embedded (human gastric cancer); Antigen retrieval by boiling (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Block serum) at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody, Unconjugated 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Block non-specific binding by normal goat serum at 37°C for 30min; Antibody incubation with (HLA-C) Monoclonal Antibody (SLM-43093M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(S) DAB staining.



Blank control:U266.

Primary Antibody (green line):Mouse Anti-HLA-C antibody (SLM-43093M)

Dilution: 1ug/Test;

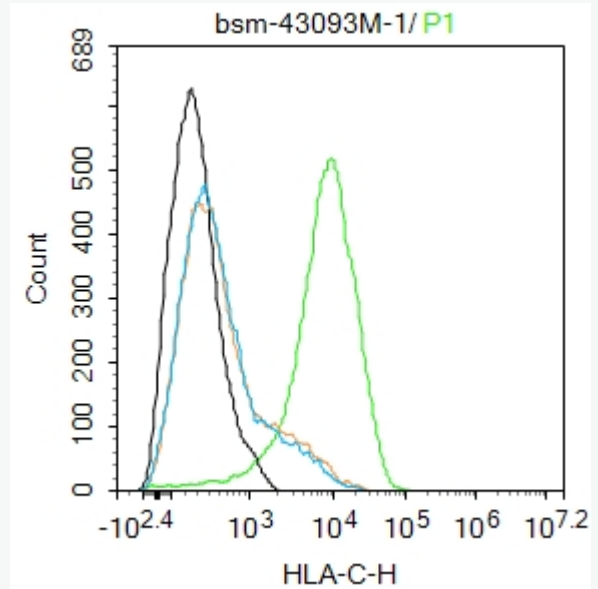
Secondary Antibody (white blue line) : Goat anti-Mouse IgG-AF488

Dilution: 0.5ug/Test.

Isotype control (orange line) : Normal Mouse IgG

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody was stained for 30 min at room temperature. Acquisition of 20,000 events was performed.



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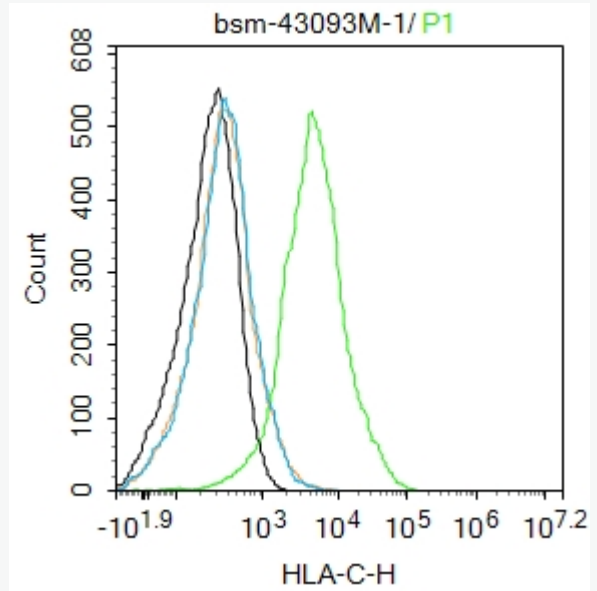
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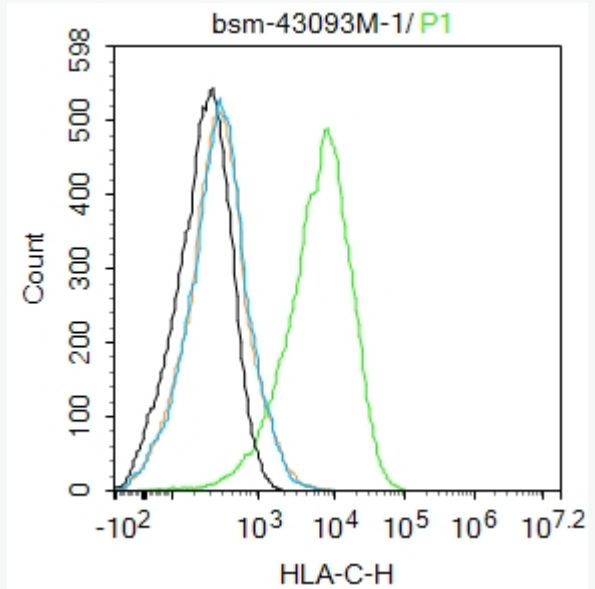
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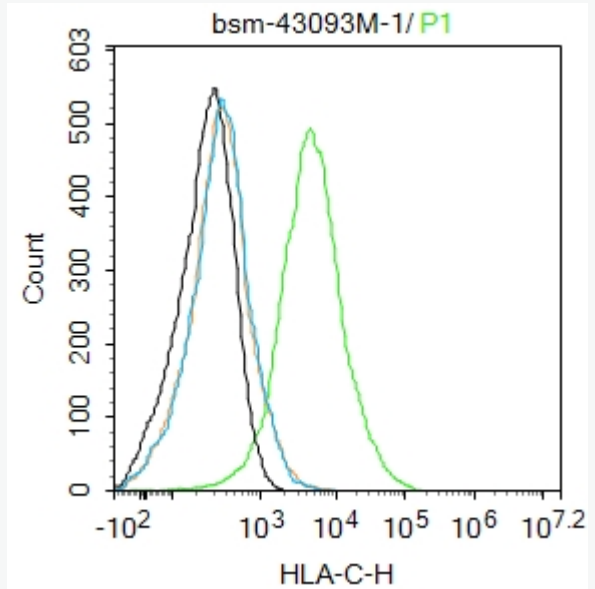
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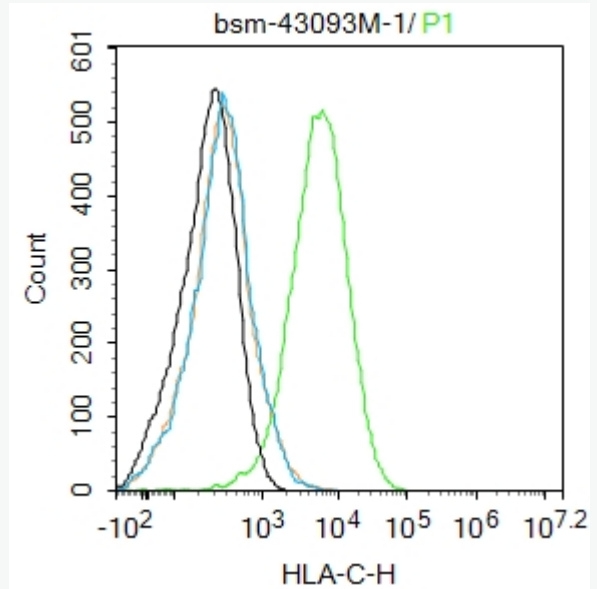
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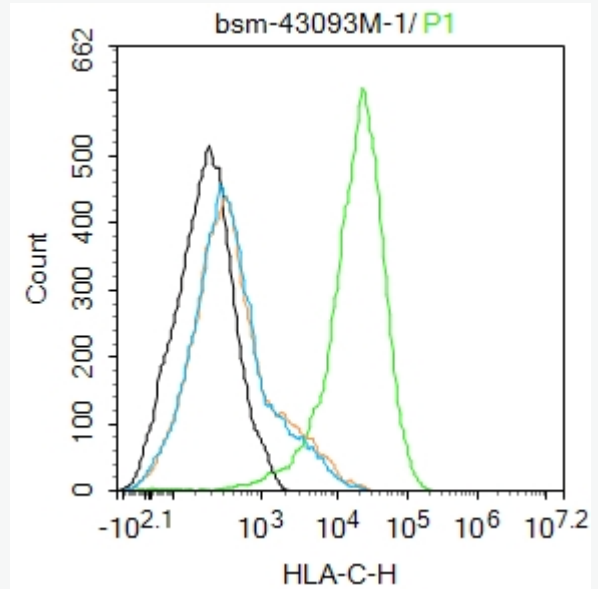
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