

Rabbit Anti-CD14 antibody

SL1192R

Product Name CD14

Chinese Name 内毒素受体抗体

Alias CD14 antigen; CD14 molecule; Lipopolysaccharide receptor; LPSR; Monocyte Differentiation Antigen 14; Monocyte differentiation antigen CD14; Myeloid cell specific leucine rich glycoprotein; CD14_MOUSE; Myeloid cell-specific leucine-rich glycoprotein.

Research Area Cell biology immunology Stem cells Cell Surface Molecule Cell type markers lymphocyte

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 35/40kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from mouse CD14: 201-300/366

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution Human1M TBS(pH7.4) with 1% BSA, Human3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

The protein encoded by this gene is a surface antigen that is preferentially expressed on monocytes/macrophages. It cooperates with other proteins to mediate the innate immune response to bacterial lipopolysaccharide, and to viruses. This gene has been identified as a target candidate in the treatment of SARS-CoV-2-infected patients to potentially lessen or inhibit a severe inflammatory response. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Aug 2020]

Function:

Cooperates with MD-2 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Up-regulates cell surface molecules, including adhesion molecules.

Subunit:

Belongs to the lipopolysaccharide (LPS) receptor, a multi-protein complex containing at least CD14, MD-2 and TLR4.

Subcellular Location:

Cell membrane; Lipid-anchor, GPI-anchor.

Similarity:

Contains 11 LRR (leucine-rich) repeats.

SWISS:

P10810

Gene ID:

12475

Database links:

[Entrez Gene: 929](#) Human

[Entrez Gene: 12475](#) Mouse

[Omim: 158120](#) Human

[SwissProt: P08571](#) Human

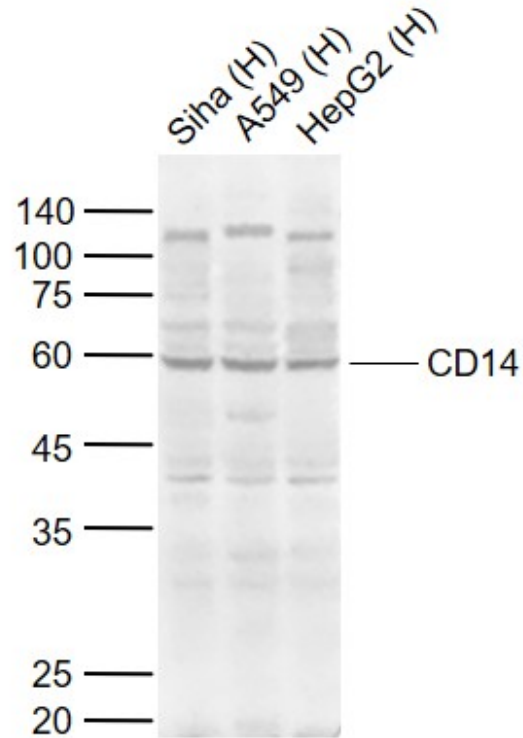
[Unigene: 163867](#) Human

**Product
Detail**

CD14 又称内毒素受体，属细胞表面 glycoprotein 家族成员之一。在机体免疫、防御系统引起的一系列反应中介导细胞识别 LPS 并引起细胞酪氨酸磷酸化、核因子 NF-κB 转位、触发 cell factor 释放和氧自由基产生。CD14 在 cell factor 产生的调控方

面起重要作用,因而对于 CD14 结构、功能及其临床意义的研究日益受到重视。

**Product
Picture**



Sample:

Lane 1: Human Siha cell lysates

Lane 2: Human A549 cell lysates

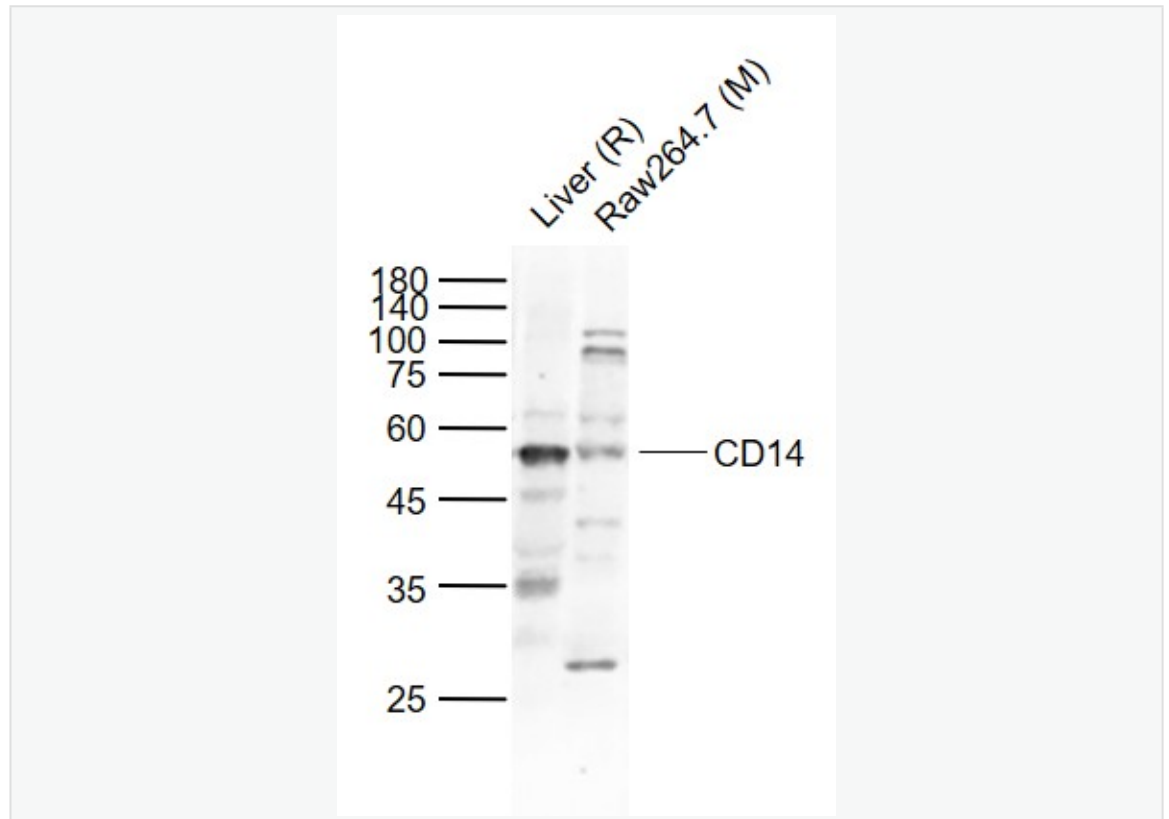
Lane 3: Human HepG2 cell lysates

Primary: Anti-CD14 (SL1192R) at 1/1000 dilution

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

Predicted band size: 35/40 kD

Observed band size: 59 kD



Sample:

Lane 1: Liver (Rat) Lysate at 40 ug

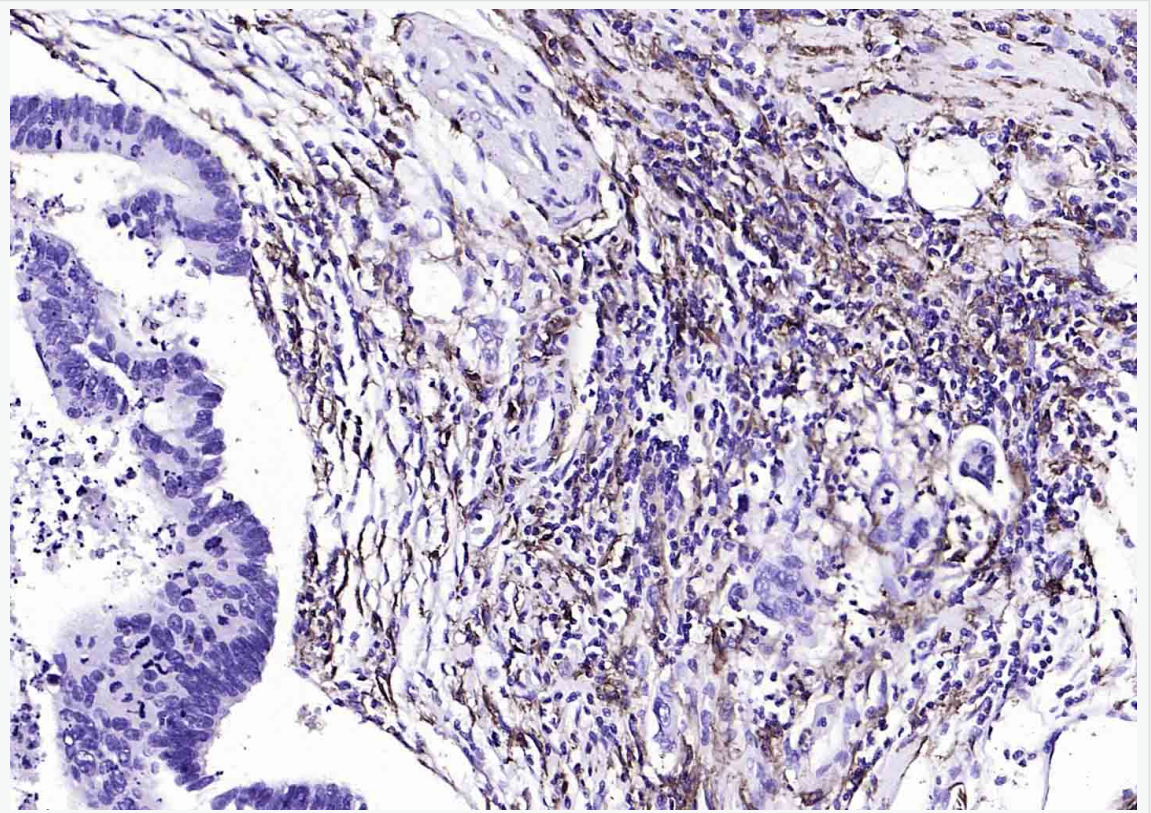
Lane 2: Raw264.7 (Mouse) Cell Lysate at 30 ug

Primary: Anti-CD14 (SL1192R) at 1/500 dilution

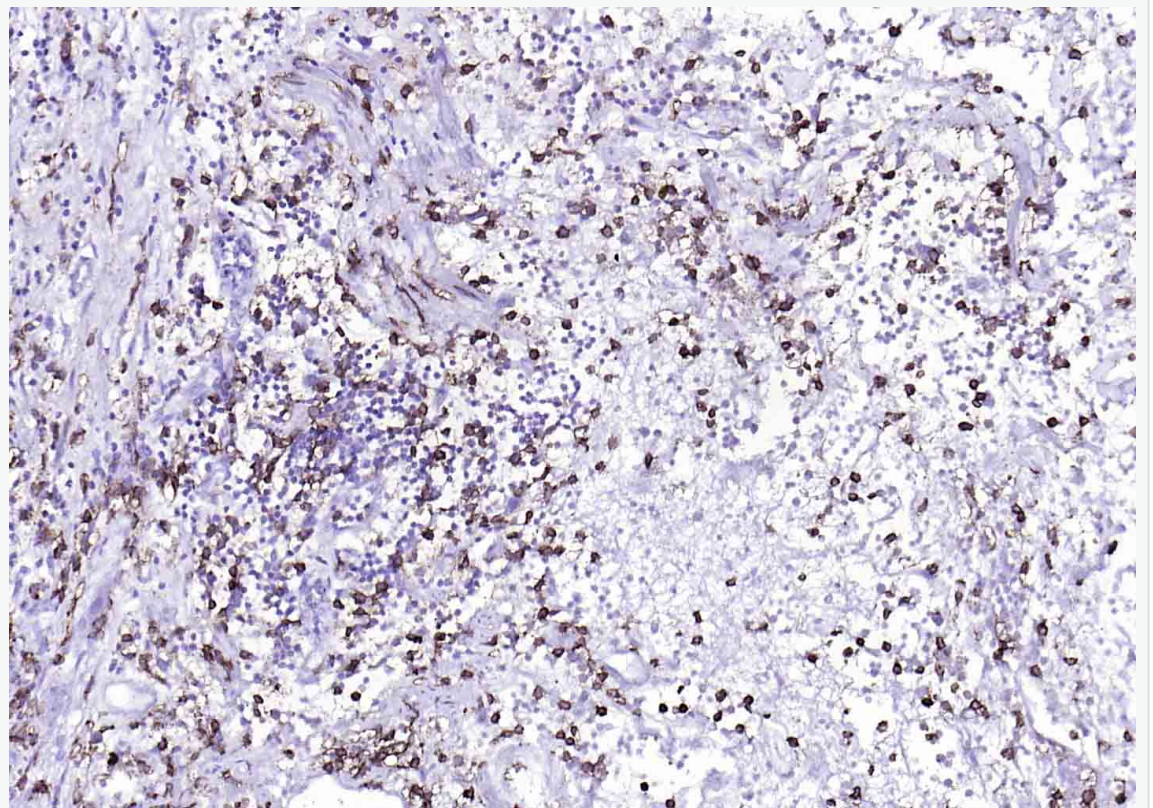
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 54 kD

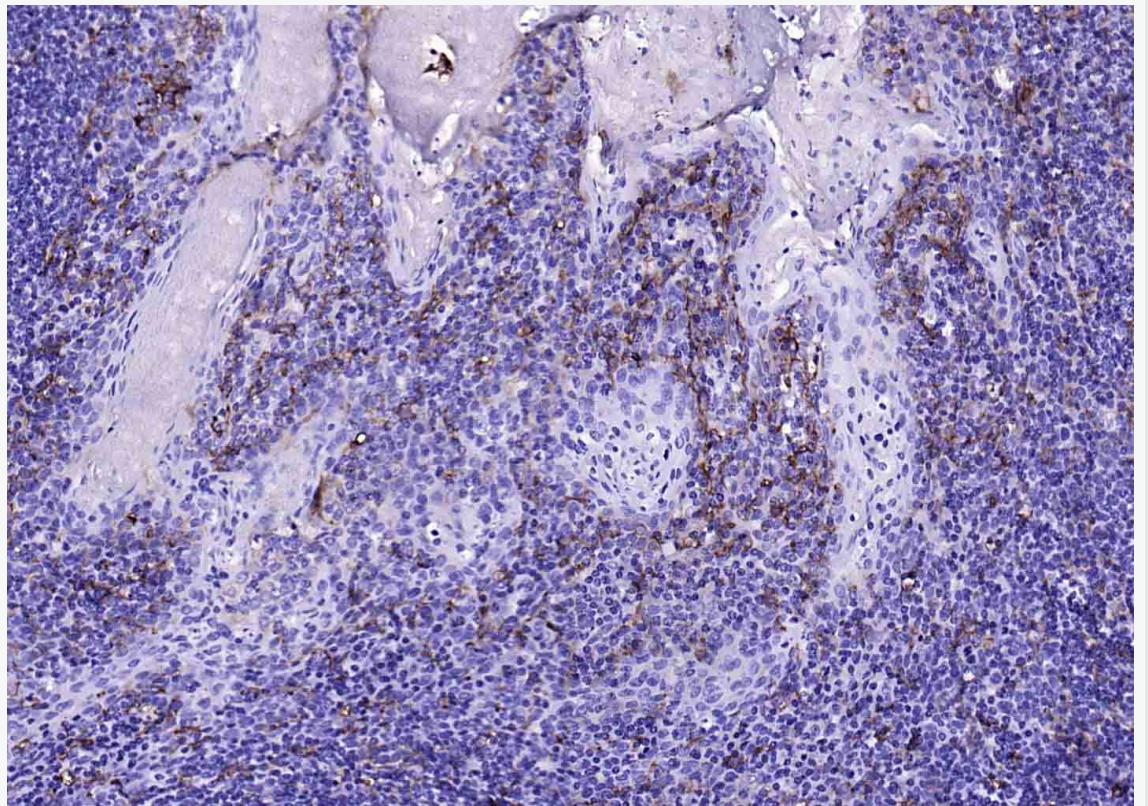
Observed band size: 54 kD



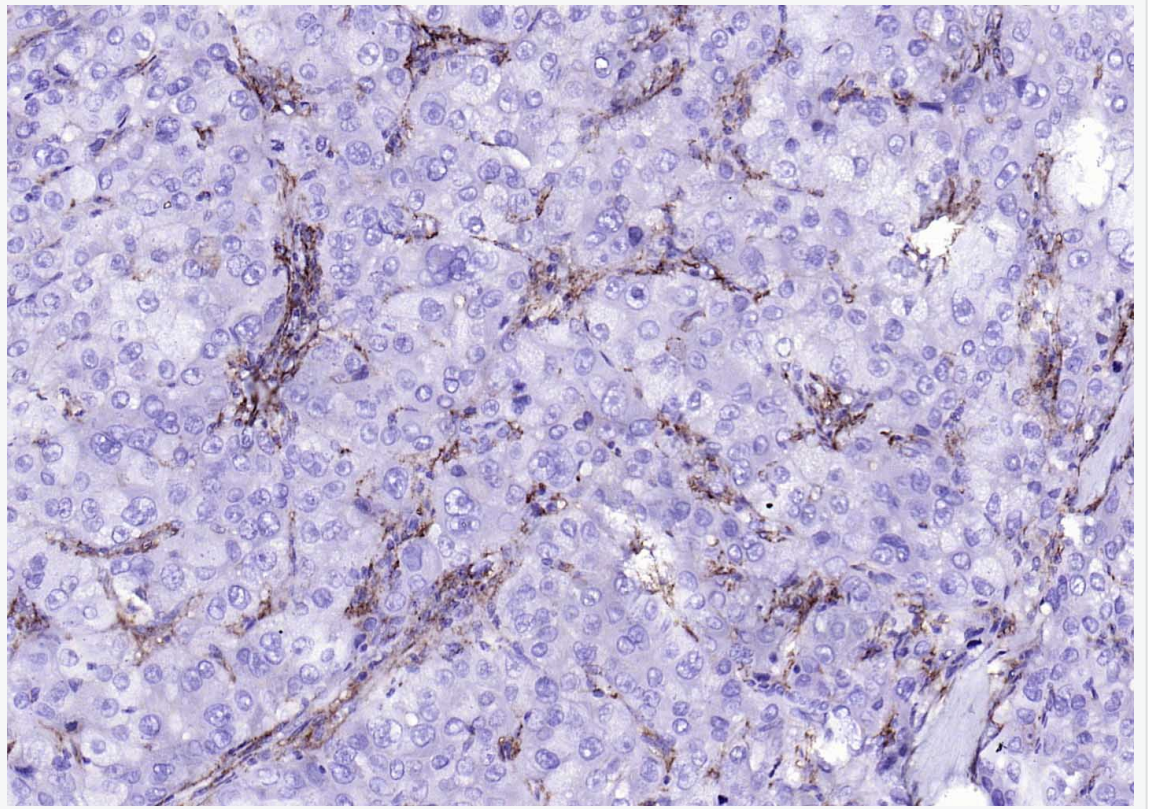
Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD14) Polyclonal Antibody, Unconjugated (SL1192R) at 1:500 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



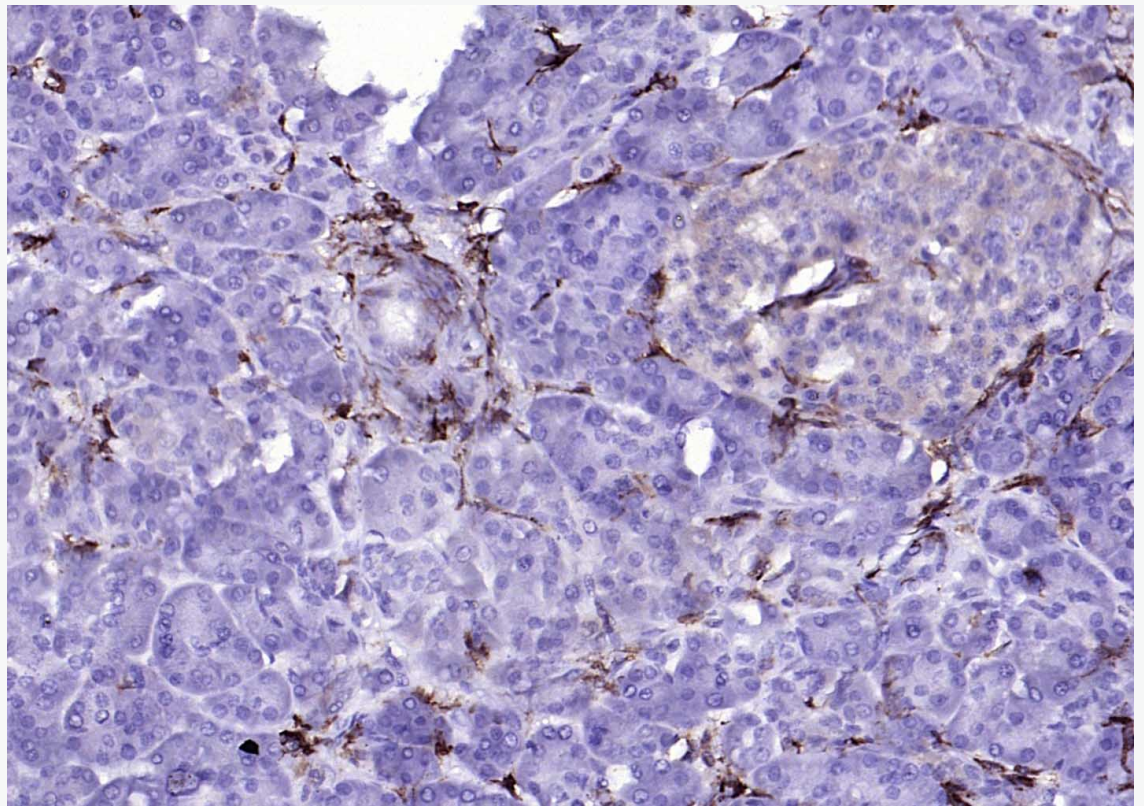
Paraformaldehyde-fixed, paraffin embedded (Human appendix); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD14) Polyclonal Antibody, Unconjugated (SL1192R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



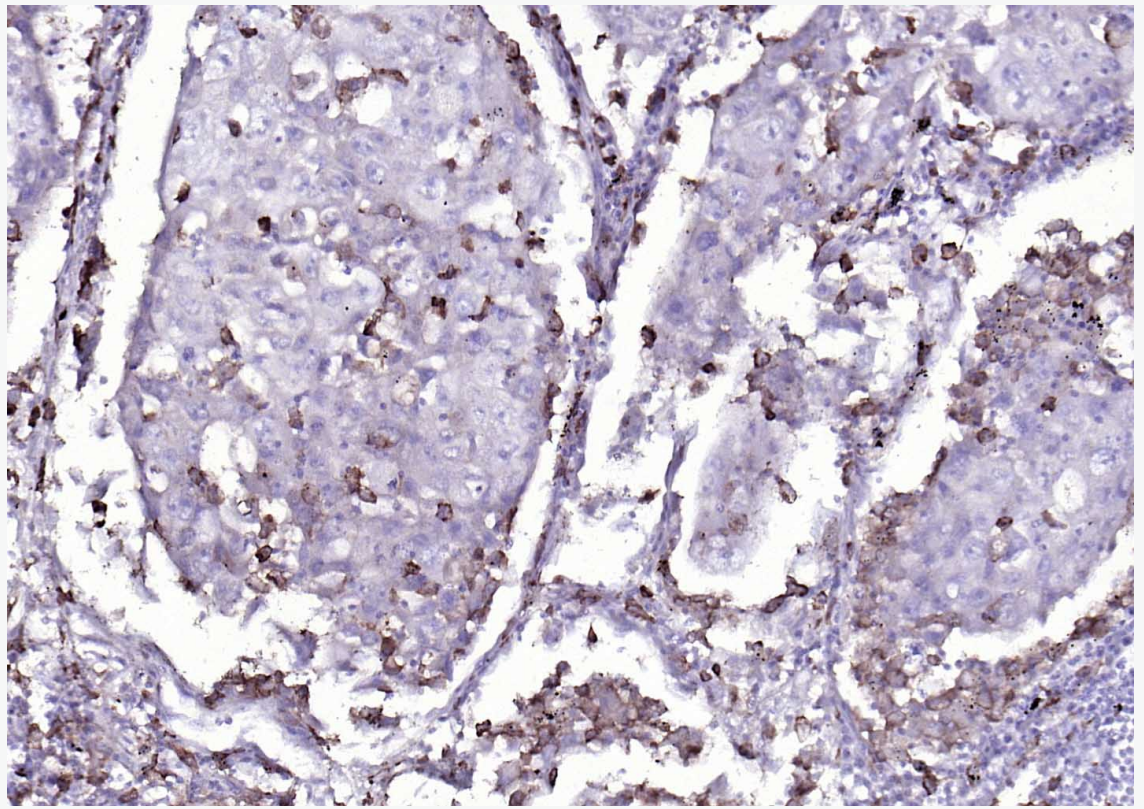
Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD14) Polyclonal Antibody, Unconjugated (SL1192R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



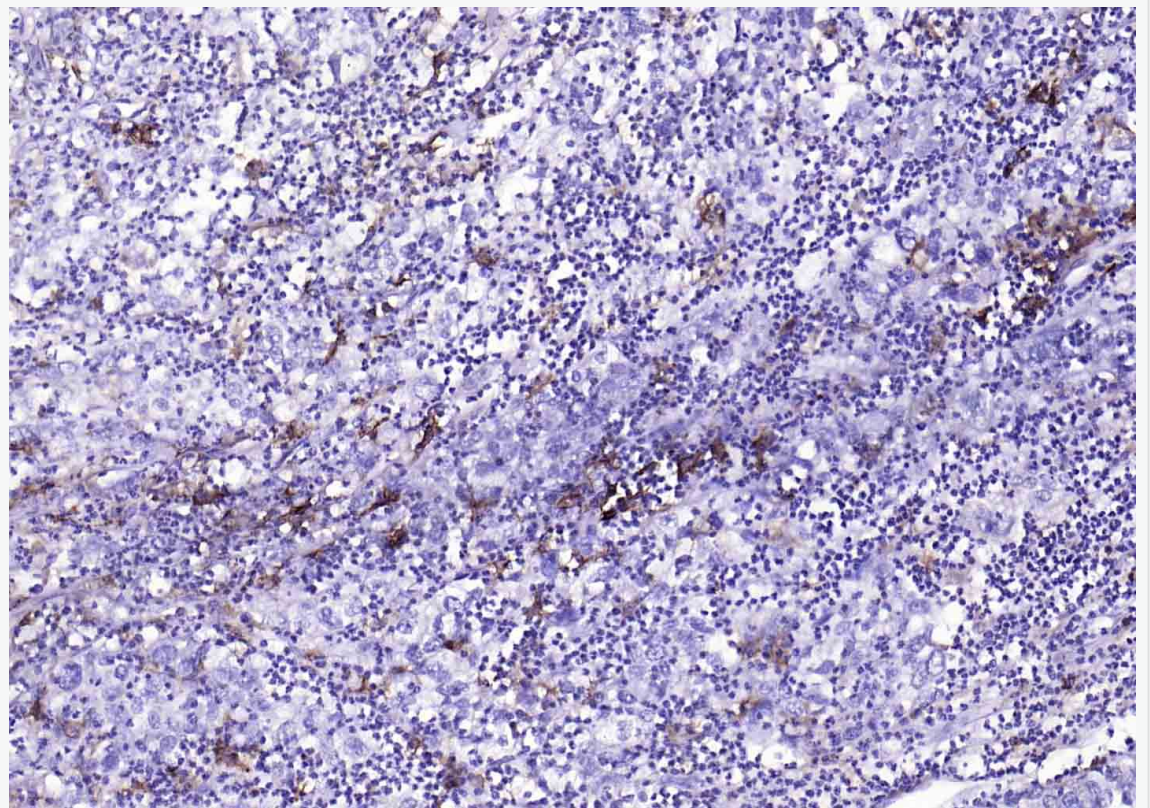
Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD14) Polyclonal Antibody, Unconjugated (SL1192R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



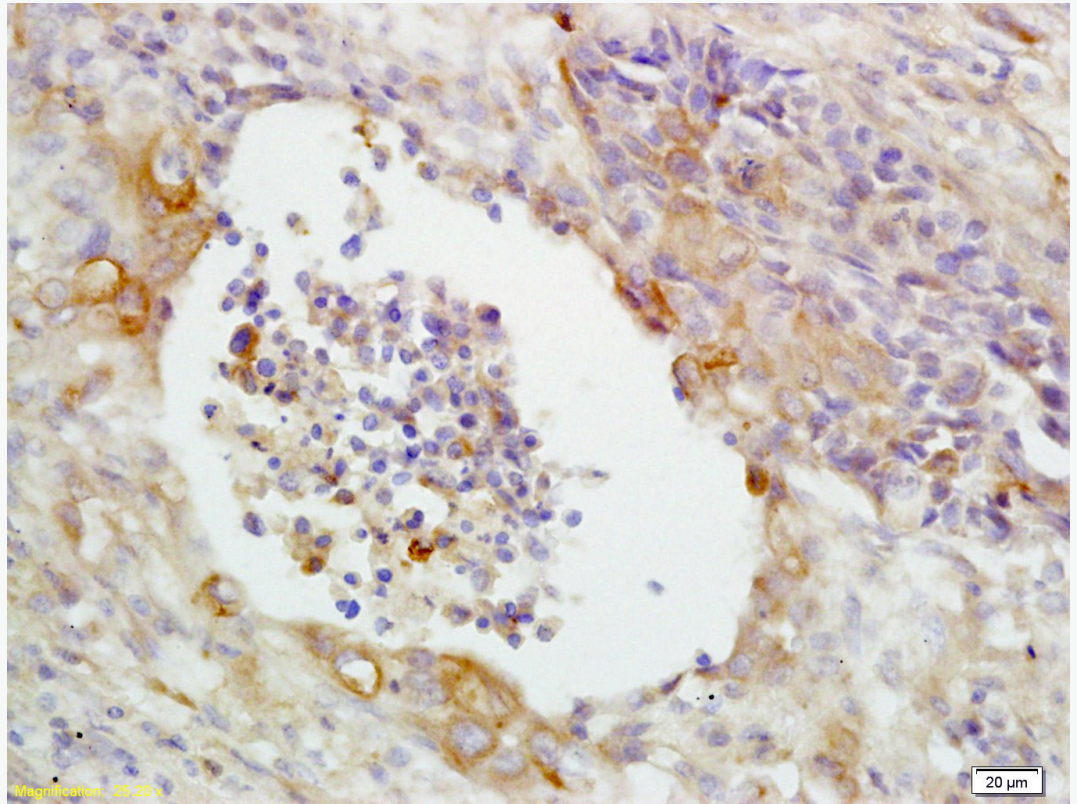
Paraformaldehyde-fixed, paraffin embedded (human pancreatic cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD14) Polyclonal Antibody, Unconjugated (SL1192R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD14) Polyclonal Antibody, Unconjugated (SL1192R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human endometrial carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD14) Polyclonal Antibody, Unconjugated (SL1192R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (Human1M, pH 6.0), Boiling bathing for 15min;

Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CD14 Polyclonal Antibody, Unconjugated(SL1192R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining