

Mouse Anti-CD38 antibody

SLM-34151M

Product Name CD38

Chinese Name CD38 单克隆抗体

Alias ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1; 2'-phospho-ADP-ribosyl cyclase; 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase; 2'-phospho-cyclic-ADP-ribose transferase; ADP-ribosyl cyclase 1; ADPRC 1; Cyclic ADP-ribose hydrolase 1; cADPr hydrolase 1; T10; CD38_HUMAN; CD38_MOUSE; I-19; NIM-R5 antigen.

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. 1C9

React Species Human

Applications IHC-P=1:100-500, IHC-F=1:100-500, IF=1:100-500
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 34kDa

Cellular localization The cell membrane

Form Lyophilized or Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human CD38

Lsotype IgG1,Kappa

Purification affinity purified by Protein A

Buffer Solution Liquid in PBS containing, 0.5% BSA and 2% sodium azide.

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 non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Function:

Synthesizes cyclic ADP-ribose, a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system.

Subcellular Location:

Membrane; Single-pass type II membrane protein.

Tissue Specificity:

Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma.

Similarity:

Belongs to the ADP-ribosyl cyclase family.

SWISS:

P28907

Gene ID:

952

Database links:

[Entrez Gene: 952](#) Human

[Omim: 107270](#) Human

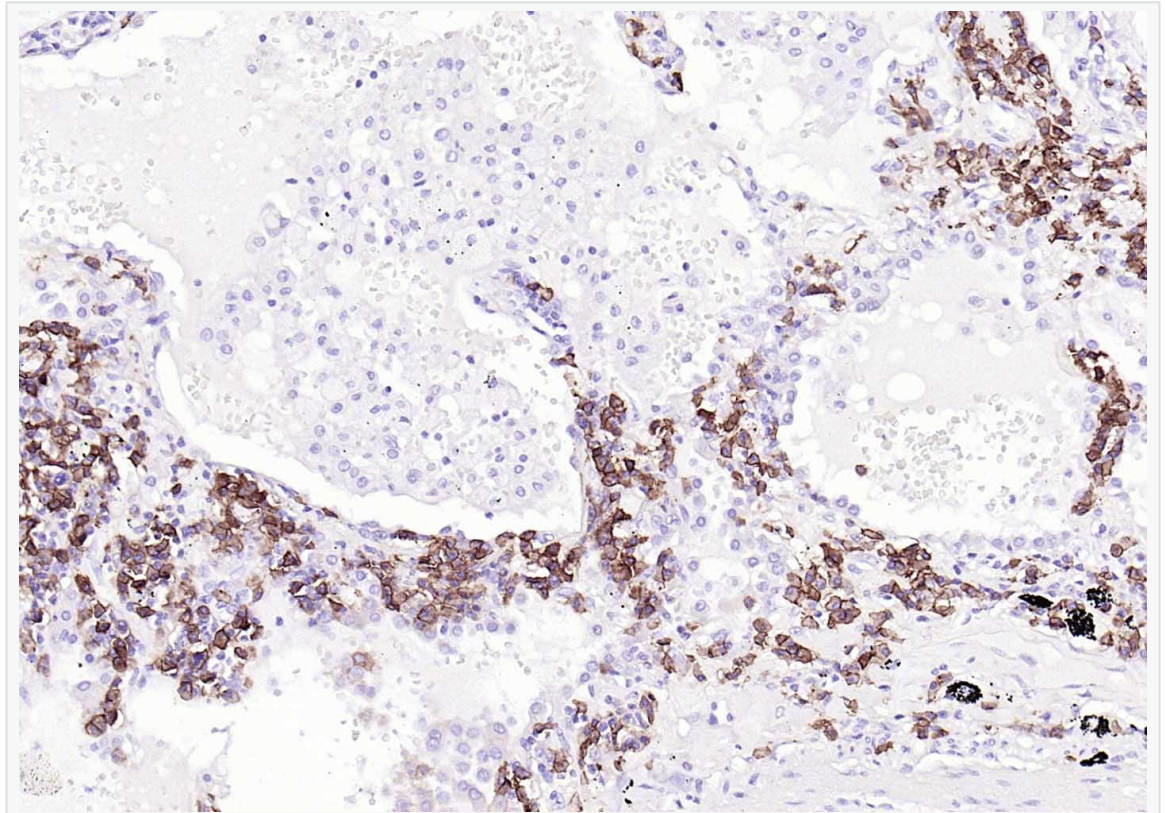
[SwissProt: P28907](#) Human

[Unigene: 479214](#) Human

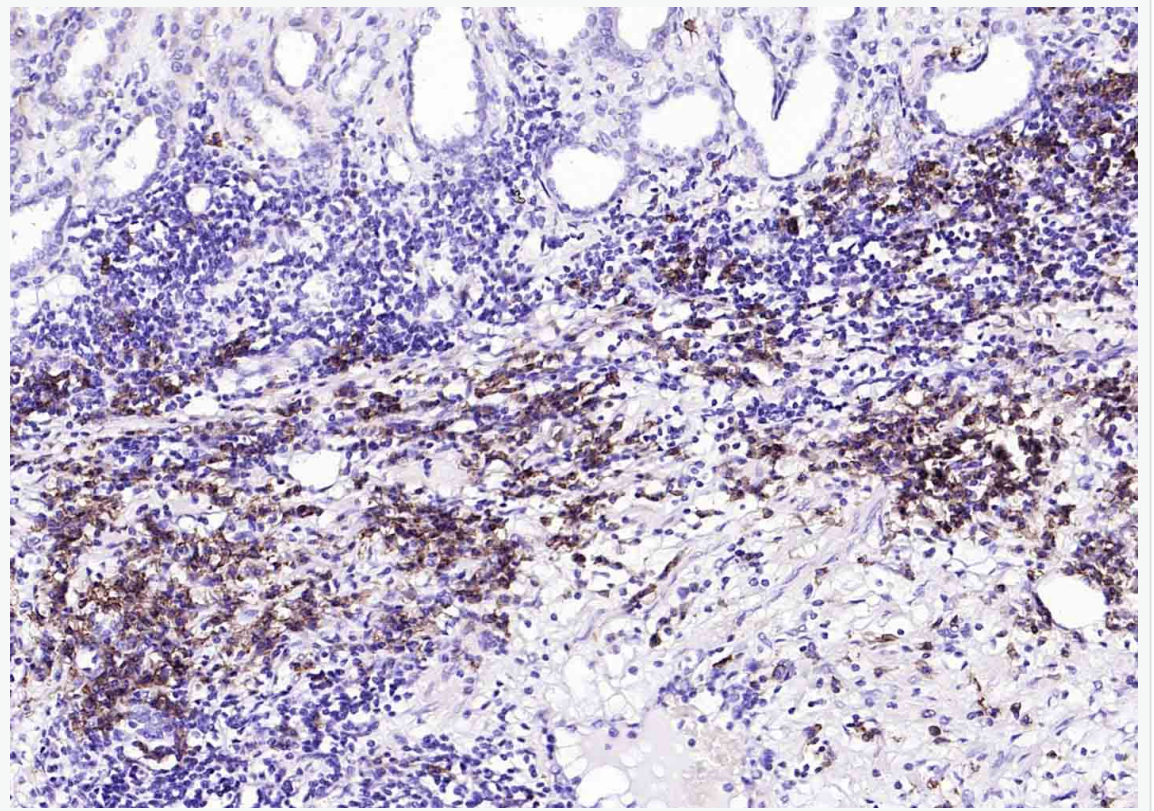
**Product
Detail**

CD38 分子是单链II型跨膜 glycoprotein, 存在于很多免疫细胞表面上,CD38 与无脊椎动物卵的授精、HIV 感染、某些癌症以及 Diabetes 等有关, CD38 具有许多复杂而又独特的生物学特性及功能, 有调控细胞钙释放的机制。主要表达于胸腺细胞、前 T 和前 B 细胞、活化的 T 和 B 细胞、单核细胞、NK 细胞、浆细胞等, 可用于急性白血病的分型和活化的 T 细胞在自身免疫和免疫缺陷中的作用等方面的研究, 也可作为生发中心 B 细胞的一种选择性标记。

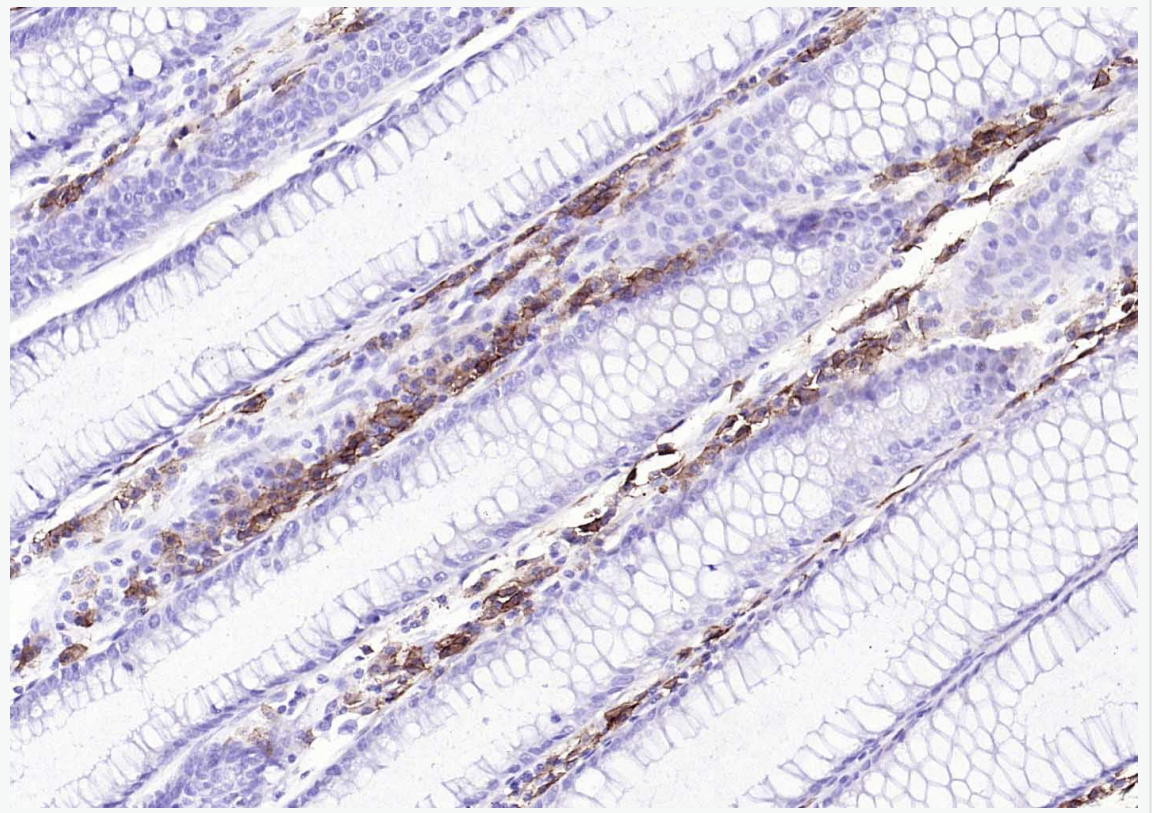
**Product
Picture**



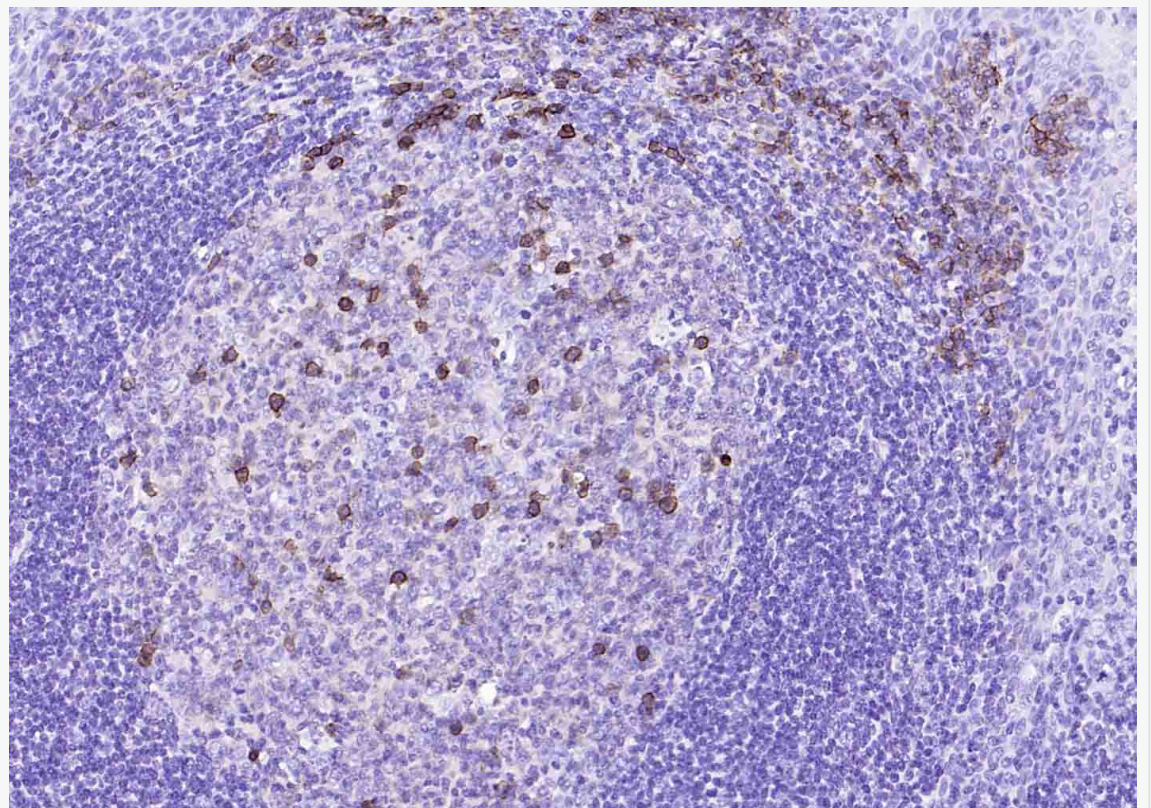
Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (CD38) Monoclonal Antibody, Unconjugated (SLM-34151M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



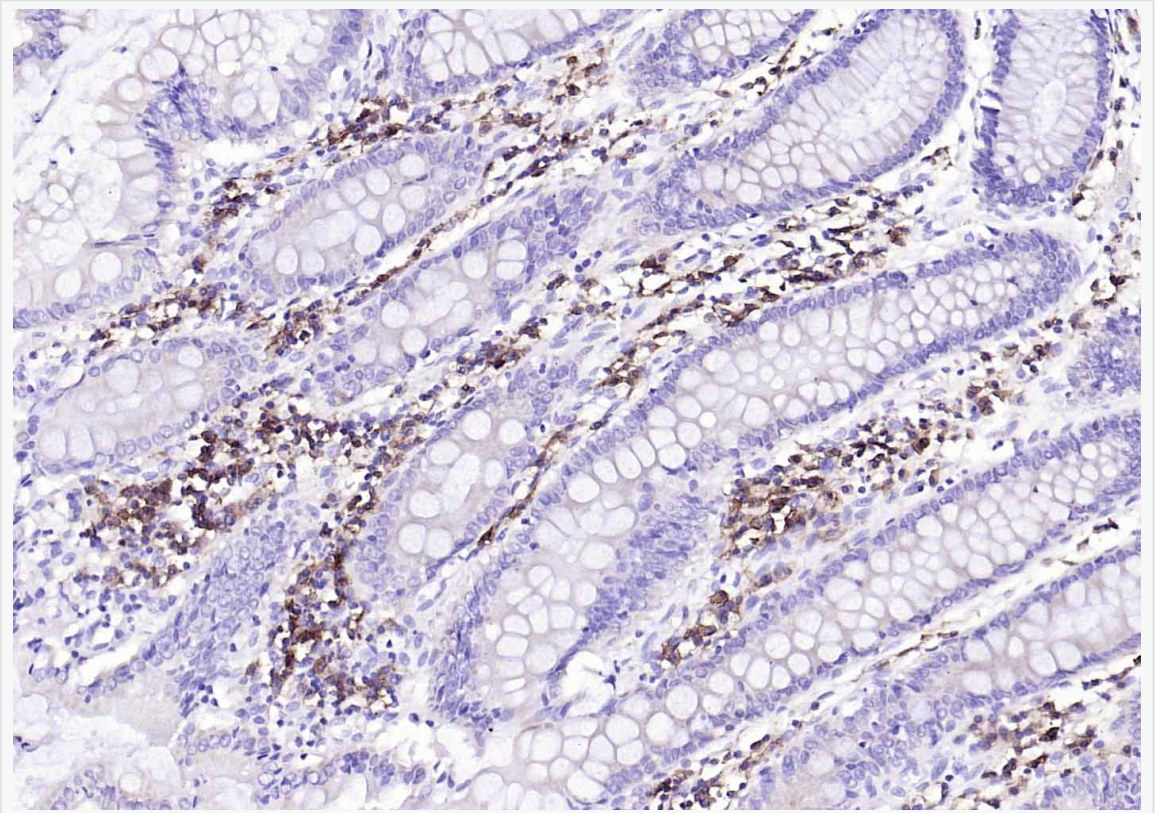
Paraformaldehyde-fixed, paraffin embedded (human kidney carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (CD38) Monoclonal Antibody, Unconjugated (SLM-34151M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human colon); 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; Incubation with (CD38) Monoclonal Antibody, Unconjugated (SLM-34151M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) 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; Incubation with (CD38) Monoclonal Antibody, Unconjugated (SLM-34151M) at 1:200 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 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; Incubation with (CD38) Monoclonal Antibody, Unconjugated (SLM-34151M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.