



Rabbit Anti-CD38 antibody

SL0979R

Product Name:	CD38
Chinese Name:	CD38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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	34kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse CD38:101-200/304<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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:

P56528

Gene ID:

12494

Database links:

[Entrez Gene: 952](#)Human

[Entrez Gene: 12494](#)Mouse

[Omim: 107270](#)Human

[SwissProt: P28907](#)Human

[SwissProt: P56528](#)Mouse

[Unigene: 479214](#)Human

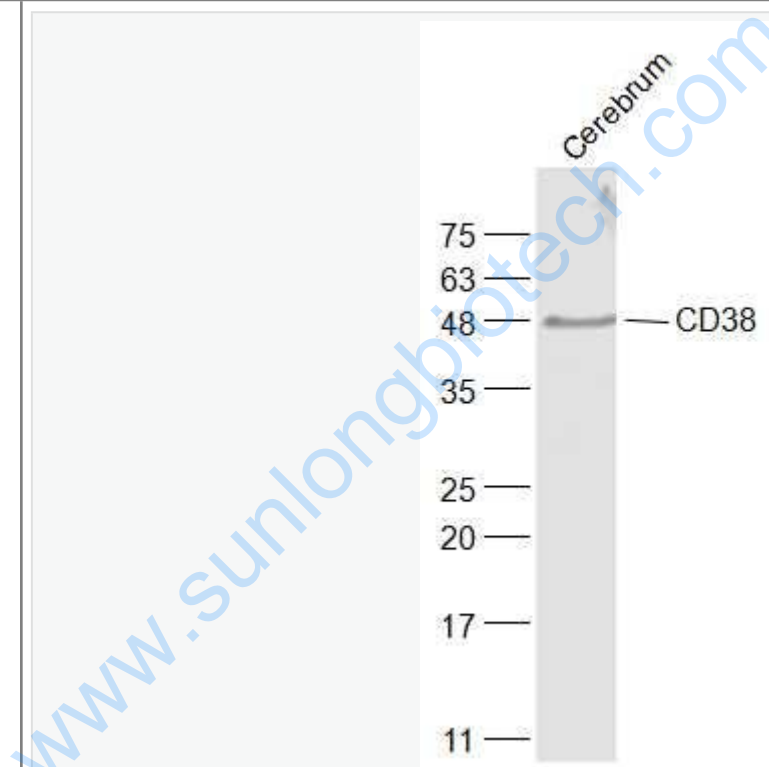
[Unigene: 249873](#)Mouse

Important Note:

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

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。

Picture:



Sample:

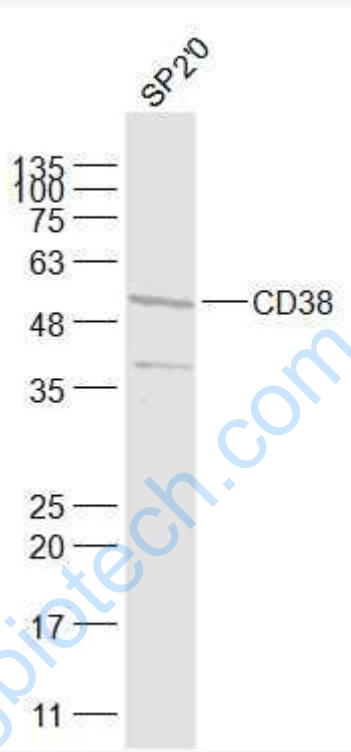
Cerebrum (Rat) Lysate at 40 ug

Primary: Anti-CD38 (SL0979R) at 1/1000 dilution

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

Predicted band size: 34 kD

Observed band size: 48 kD



Sample:

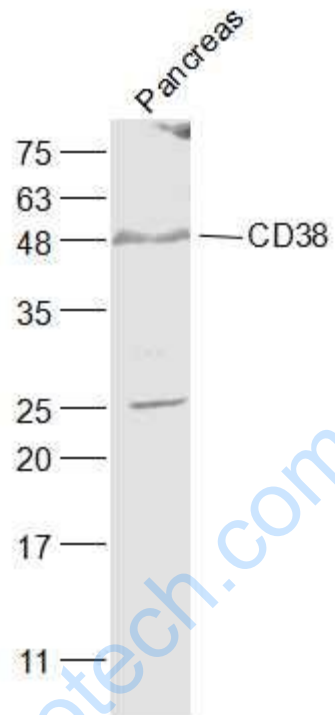
SP2/0(Mouse) Cell Lysate at 30 ug

Primary: Anti-CD38 (SL0979R) at 1/1000 dilution

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

Predicted band size: 34 kD

Observed band size: 54 kD



Sample:

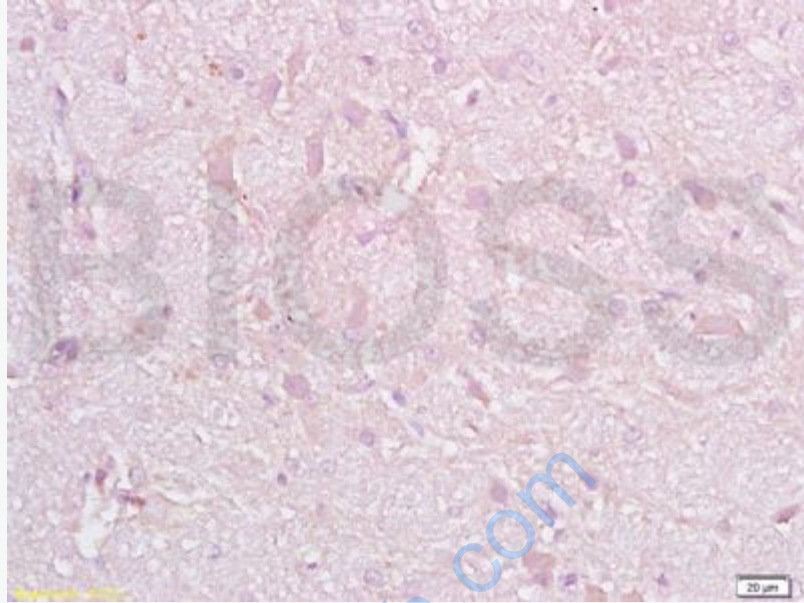
Pancreas (Mouse) Lysate at 40 ug

Primary: Anti-CD38 (SL0979R) at 1/1000 dilution

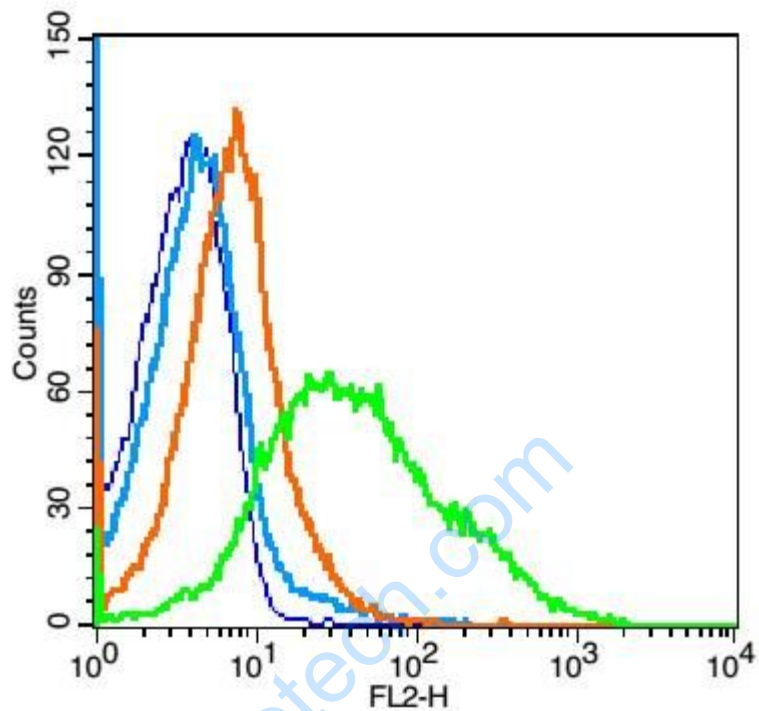
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 34 kD

Observed band size: 48 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, 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-CD38 Polyclonal Antibody, Unconjugated(SL0979R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: mouse spleen cells (blue).

Primary Antibody: Rabbit Anti- CD38 antibody(SL0979R), Dilution: 1 μ g in 100 μ L
1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X
PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice. Primary antibody (SL0979R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned

above to react with the primary antibody at 1/200 dilution for 30 min on ice.

Acquisition of 20,000 events was performed.

www.sunlongbiotech.com