

Mouse Anti-CD20 antibody

SLM-33054M

Product Name CD20

Chinese Name CD20 单克隆抗体

Alias CD20_HUMAN; B-lymphocyte antigen CD20; B-lymphocyte surface antigen B1; Bp35; Leukocyte surface antigen Leu-16; Membrane-spanning 4-domains subfamily A member 1; MS4A1; MS4A2; B1; CVID5; LEU-16; S7.

Research Area immunology Cell Surface Molecule Cell type markers b-lymphocyte

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. 4H4

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

Theoretical molecular weight 33kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human CD20 <Extracellular>

Lsotype IgG

Purification affinity purified by Protein G

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% 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](#)

CD20 is a non glycosylated protein with a molecular weight of 35 or 37 kDa depending on the degree of phosphorylation. Although not a member of the tetraspanin superfamily of cell surface receptors, it crosses the cell membrane four times. The CD20 antigen is present on human pre B lymphocytes and on B lymphocytes at all stages of maturation, except on plasma cells. Low level expression of the CD20 antigen has been detected on normal T lymphocytes. The CD20 molecule is involved in regulation of B cell differentiation, presumably via its reported function as a Ca⁺⁺ channel subunit.

Function:

This protein may be involved in the regulation of B-cell activation and proliferation

Subcellular Location:

Membrane; Multi-pass membrane protein.

Tissue Specificity:

Expressed on B-cells.

Post-translational modifications:

Phosphorylated. Might be functionally regulated by protein kinase(s).

Product Detail

DISEASE:

Defects in MS4A1 are the cause of immunodeficiency common variable type 5 (CVID5) [MIM:613495]; also called antibody deficiency due to CD20 defect. CVID5 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B-cells is usually in the normal range, but can be low.

Similarity:

Belongs to the MS4A family.

SWISS:

P11836

Gene ID:

931

Database links:

[Entrez Gene: 931](#) Human

[Omim: 112210](#) Human

[SwissProt: P11836](#) Human

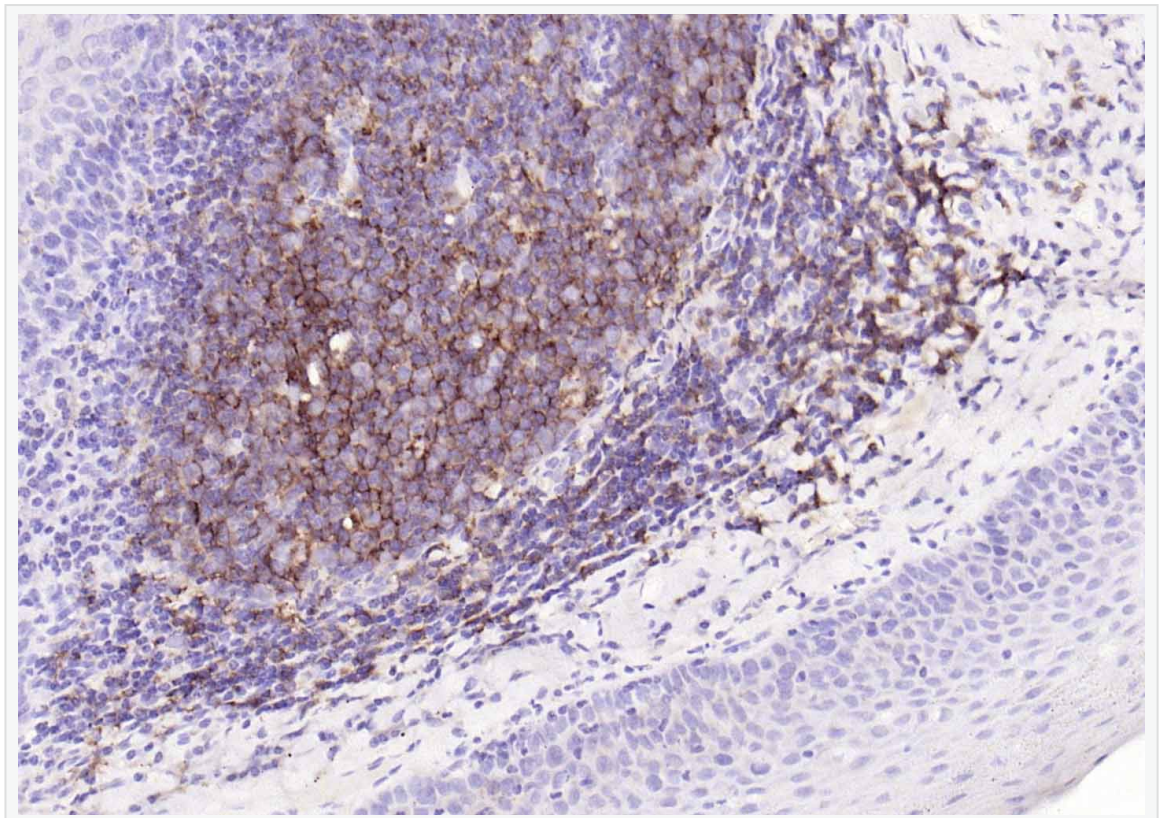
[Unigene: 712553](#) Human

BlymphocyteMaker

CD20 是 B 细胞特异性抗原，其表达呈细胞类型一种质膜蛋白质，参与信号传导作用，此抗体识别大多数 B 细胞上的一种抗原。多用于标记 Blymphocyte 及 B 细胞淋巴瘤。

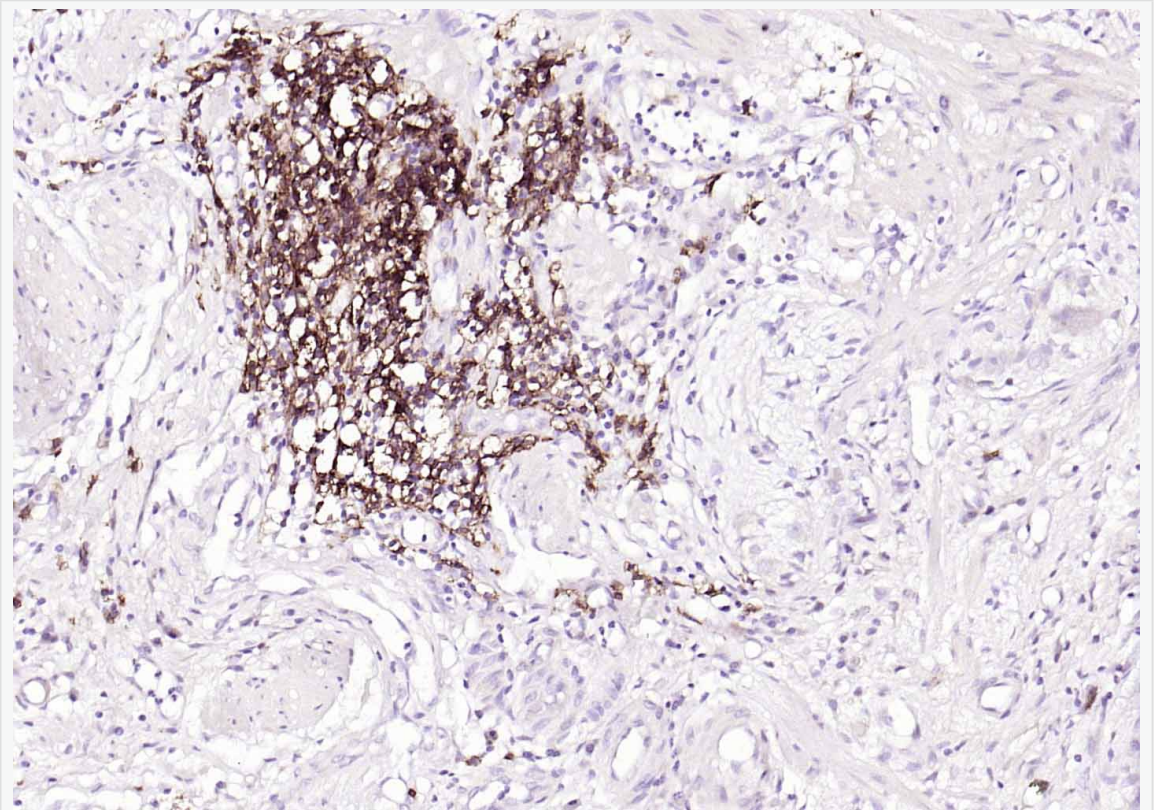
CD20 一般不与 T 细胞 React Species，对 B 细胞淋巴瘤和急慢性 lymphocyte 白血病等有较好的细胞特异性，因此在恶性淋巴瘤，尤其是 T 或 B 细胞淋巴瘤的分类上，CD20 是最常用的 B 细胞标志。

Product Picture



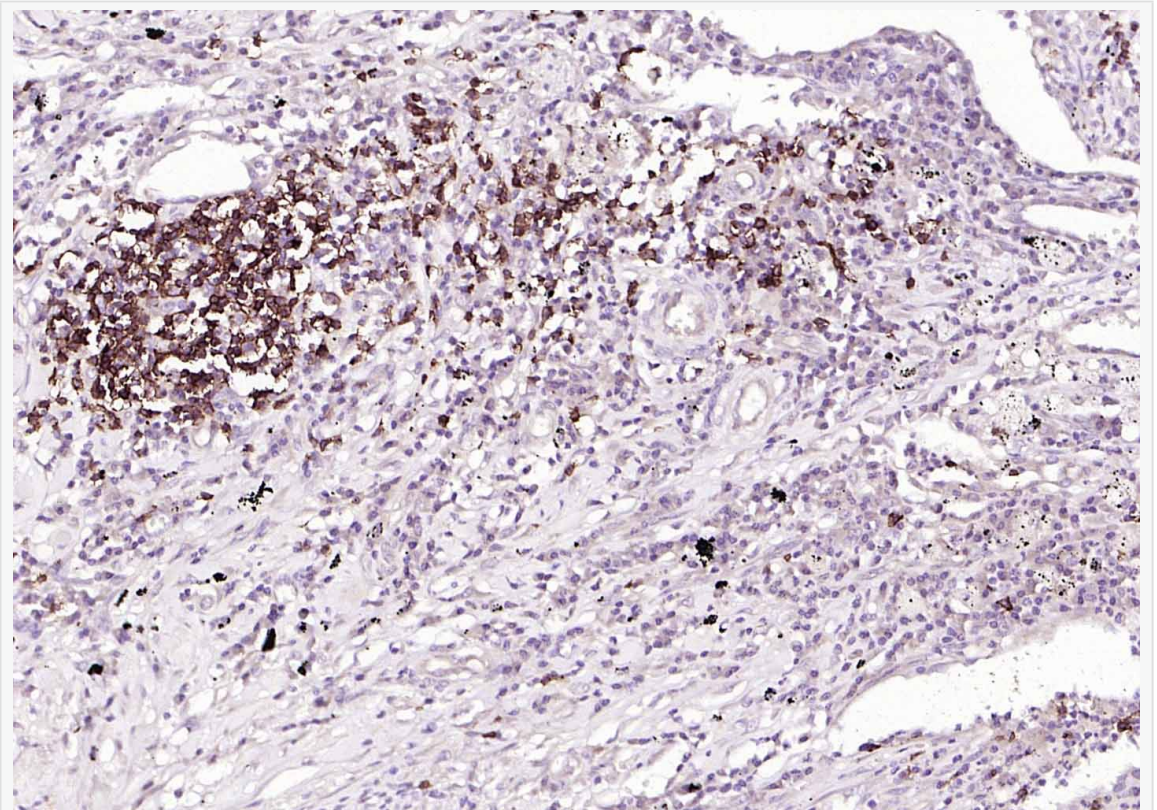
Paraformaldehyde-fixed, paraffin embedded (Human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by

3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD20) Monoclonal Antibody, Unconjugated (SLM-33054M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

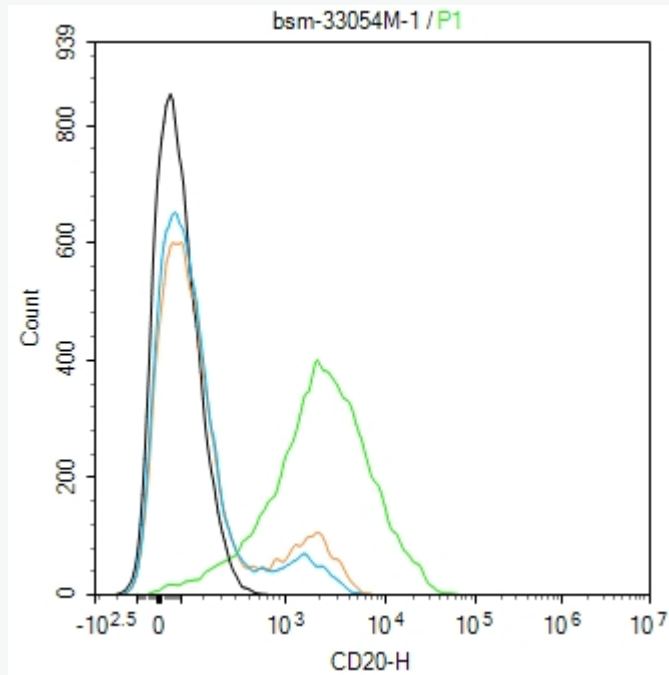


Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD20) Monoclonal Antibody, Unconjugated (SLM-33054M) 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 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 (CD20) Monoclonal Antibody, Unconjugated (SLM-33054M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Blank control (black line) :Daudi.

Primary Antibody (green line): Mouse Anti-CD20 antibody (SLM-33054M)

Dilution:1ug/Test;

Secondary Antibody (white blue line) : Goat anti-mouse IgG-FITC

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 used for 40 min at room temperature.

Acquisition of 20,000 events was performed.



SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com
