

Mouse Anti-CD23 antibody

SLM-33088M

Product Name CD23

Chinese Name CD23/FcεRII 单克隆抗体

Alias

Fc EpsilonR II; FcεRII; Blast 2; Blast2; C type lectin domain family 4 member J; C-type lectin domain family 4, member J; CD 23; CD 23A; CD23 antigen; CD23A; CLEC 4J; CLEC4J; Fc epsilon RII; Fc fragment of IgE low affinity II receptor for; Fc fragment of IgE, low affinity II, receptor for (CD23); Fc of IgE, low affinity II, receptor for (CD23); Fc receptor IgE low affinity II alpha polypeptide; Fc receptor, IgE, low affinity II, alpha polypeptide, isoform CRA_a; FCE 2; FCE2; FCER 2; FCER2; FCER2A; IgE binding factor; IgE receptor lymphocyte; IgE-binding factor; IGBEF; Immunoglobulin E binding factor; Immunoglobulin E receptor, low affinity II; Low affinity immunoglobulin epsilon Fc receptor; Low affinity immunoglobulin epsilon Fc receptor membrane bound form; Low affinity immunoglobulin epsilon Fc receptor soluble form; Ly-42; Ly42; Lymphocyte antigen CD23; Lymphocyte IgE receptor; MGC93219.

Research Area

Cell biology immunology b-lymphocyte

Immunogen Species

Mouse

Clonality

Monoclonal

Clone NO.

12G2

React Species

Human

Applications

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

Theoretical molecular weight

36kDa

Cellular localization

The cell membrane

Form

Liquid

Concentration 1mg/ml



immunogen	Recombinant human CD23
Lsotype	IgG
Purification	affinity purified by Protein G
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 <p>The CD23 antigen is the low affinity IgE Fc receptor, which is a 49 kDa protein with 38 and 28 kDa fragments. It is expressed on most mature, conventional B cells (but not on peritoneal CD5+ B cells), and can also be found on the surface of T cells, macrophages, platelets and EBV transformed B lymphoblasts. Expression of CD23 has been detected in neoplastic cells from cases of B cell chronic Lymphocytic leukemia. CD23 is expressed by B cells in the follicular mantle but not by proliferating germinal centre cells. CD23 is also expressed by eosinophils. CD23 is distinct from the high affinity IgE receptors found on basophils and mast cells, which mediate allergic reactions. The low affinity receptors are thought to play a role in isotype specific immunoregulation. The regulation of CD23 surface expression appears to be integral with the complex IgE system, which involves interactions of cells, cytokines, antibodies and regulatory factors. CD23 has been described as a "membrane bound cytokine," in that the soluble cleavage products of CD23 are themselves able to act as cytokines in vitro.</p>
Product Detail	<p>Function: Low-affinity receptor for immunoglobulin E (IgE) and CR2/CD21. Has essential roles in the regulation of IgE production and in the differentiation of B-cells (it is a B-cell-specific antigen).</p> <p>Subcellular Location: Cell membrane; Single-pass type II membrane protein. Secreted. Note=Also exists as a soluble excreted form.</p> <p>Post-translational modifications: N- and O-glycosylated.</p> <p>Similarity: Contains 1 C-type lectin domain.</p> <p>SWISS: P06734</p>

Gene ID:

2208

Database links:

[Entrez Gene: 2208](#) Human

[Entrez Gene: 14128](#) Mouse

[Omim: 151445](#) Human

[SwissProt: P06734](#) Human

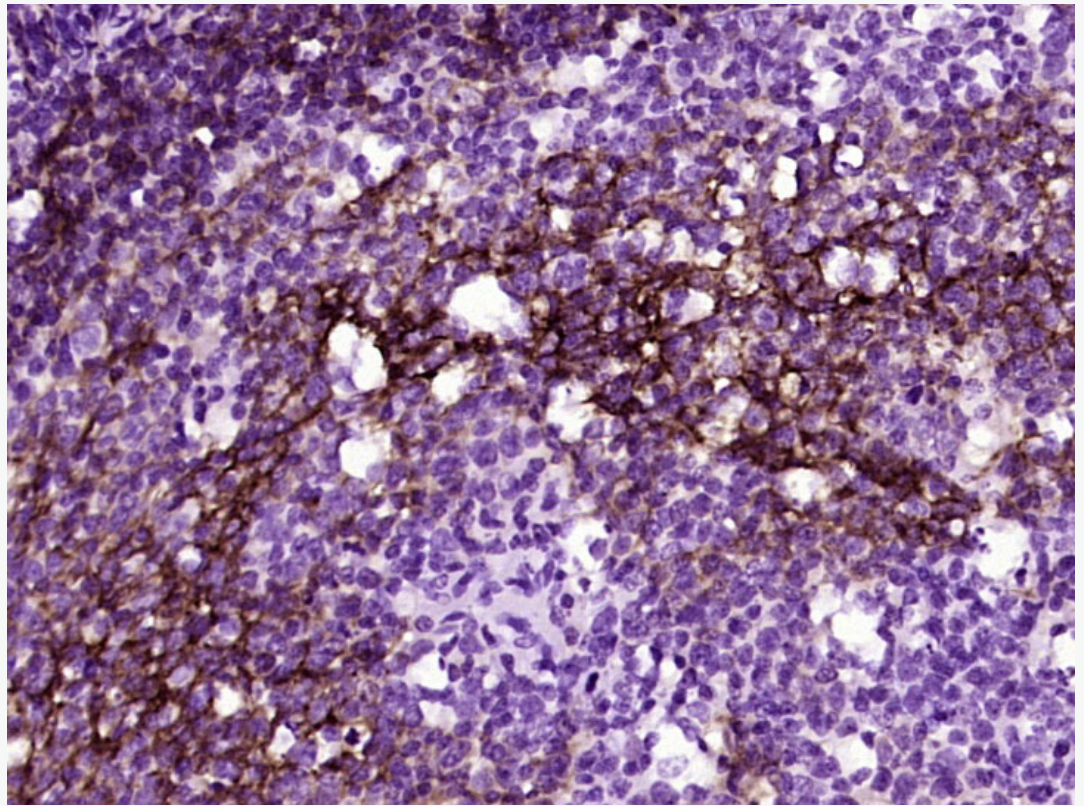
[SwissProt: P20693](#) Mouse

[Unigene: 465778](#) Human

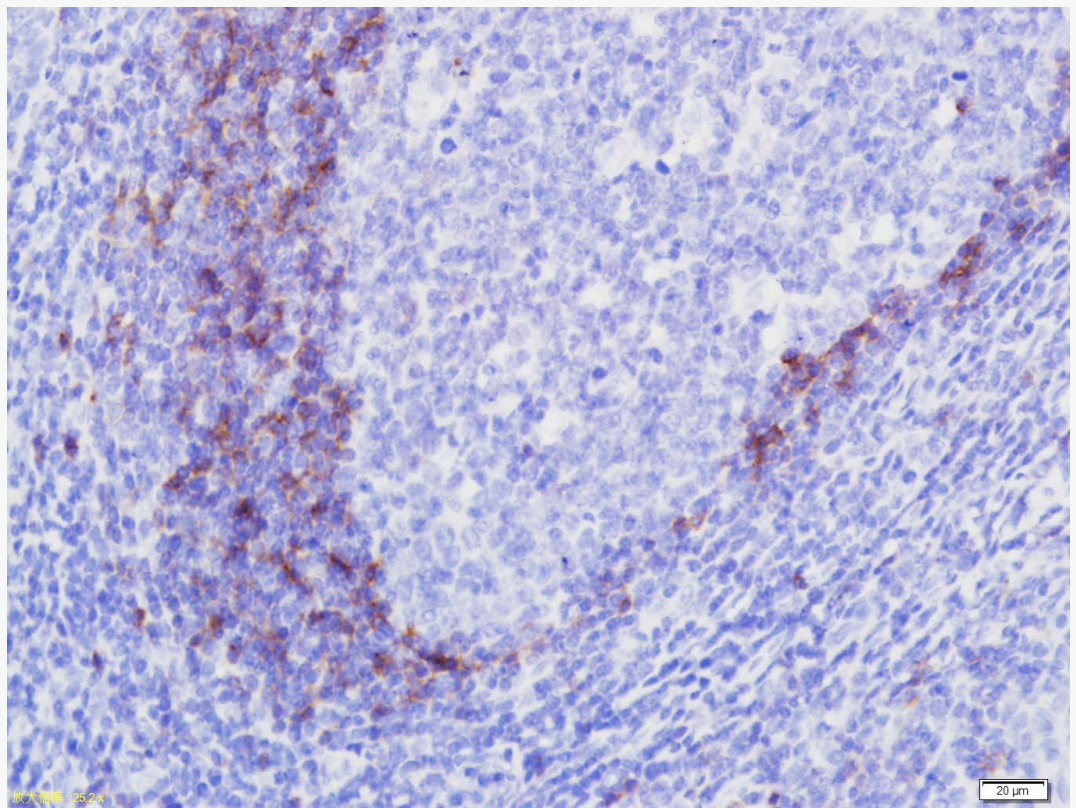
[Unigene: 1233](#) Mouse

CD23 是一种 II 型跨膜 glycoprotein，是存在于 B 细胞表面的 IgE 受体。在慢性 Blymphocyte 白血病（CLL）和小 B 细胞淋巴瘤（SLL）为阳性，套细胞淋巴瘤和小核裂 lymphocyte 淋巴瘤阴性。也表达于外周血 B 细胞的某些亚型、Blymphocyte 和 EB 病毒转染的 B 淋巴瘤细胞系。CD23 是慢性 Blymphocyte 白血病，小 B 细胞淋巴瘤诊断和鉴别诊断有用的标记物。

**Product
Picture**



Paraformaldehyde-fixed, paraffin embedded (human tonsil tissue); 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 (CD23) Monoclonal Antibody, Unconjugated (ascites of SLM-33088M) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes 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 (CD23) Monoclonal Antibody, Unconjugated (ascites of SLM-33088M 12G2) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.