



Rabbit Anti-CD24 antibody

SL4891R

Product Name:	CD24
Chinese Name:	CD24抗体
Alias:	CD 24; CD24; CD24 antigen (small cell lung carcinoma cluster 4 antigen); CD24 antigen; CD24 molecule; CD24_HUMAN; CD24A; GPI linked surface mucin; Heat stable antigen; HSA; Nectadrin; Signal transducer CD24; Small cell lung carcinoma cluster 4 antigen; Cd24; Cd24a; Ly-52.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	3/8kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse CD24:27-53/76
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:	CD24 (also known as heat stable antigen) is a phosphatidylinositol linked cell surface glycoprotein with a polypeptide core of 30 amino acids and high carbohydrate content. The apparent molecular mass of the two forms of CD24 purified from a mouse lymphoma cell line appear to be in the range of 40-60 and 23-30 kDa. CD24 is expressed at all stages of B cell development and on most thymocytes. The absence of

expression from mature T cells is closely associated with their maturation from CD4+ CD8+ CD24+ thymocytes to either CD4+ CD8- CD24- or CD4- CD8+ CD24- T cells. CD24 is also present on mouse granulocytes, monocytes, Langerhans cells and erythrocytes. Its ligand is P selectin (CD62P). CD24 may play a role in regulation of B cell proliferation and differentiation, and it has been proposed that heat stable antigen promotes homotypic adhesion between B lymphocytes. CD24 is also a positive marker of pancreatic cancer.

Function:

Modulates B-cell activation responses. Signaling could be triggered by the binding of a lectin-like ligand to the CD24 carbohydrates, and transduced by the release of second messengers derived from the GPI-anchor. Promotes AG-dependent proliferation of B-cells, and prevents their terminal differentiation into antibody-forming cells. Subunit : Belongs to the CD24 family.

Subcellular Location:

Cell membrane; Lipid-anchor, GPI-anchor.

Tissue Specificity:

B-cells. Expressed in a number of B-cell lines including P32/SH and Namalwa. Expressed in erythroleukemia cell and small cell lung carcinoma cell lines. Also expressed on the surface of T-cells.

DISEASE:

Genetic variations in CD24 are associated with susceptibility to multiple sclerosis (MS) [MIM:126200]. A multifactorial, inflammatory, demyelinating disease of the central nervous system. Sclerotic lesions are characterized by perivascular infiltration of monocytes and lymphocytes and appear as indurated areas in pathologic specimens (sclerosis in plaques). The pathological mechanism is regarded as an autoimmune attack of the myelin sheat, mediated by both cellular and humoral immunity. Clinical manifestations include visual loss, extra-ocular movement disorders, paresthesias, loss of sensation, weakness, dysarthria, spasticity, ataxia and bladder dysfunction. Genetic and environmental factors influence susceptibility to the disease. Note=Polymorphisms in CD24 may act as a genetic modifier for susceptibility and progression of MS in some populations, perhaps by affecting the efficiency of CD24 expression on the cell surface.

SWISS:

P24807

Gene ID:

12484

Database links:

[Entrez Gene: 100133941](#)Human

[Entrez Gene: 12484](#)Mouse

[Entrez Gene: 25145](#)Rat

[Omim: 600074](#)Human

[SwissProt: P25063](#)Human

[SwissProt: P24807](#)Mouse

[SwissProt: Q07490](#)Rat

[Unigene: 644105](#)Human

[Unigene: 721443](#)Human

[Unigene: 29742](#)Mouse

[Unigene: 6007](#)Rat

Important Note:

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

神经Stem cellsMaker

TumourMaker

CD24是一种低分子量高度糖基化的黏附分子, 主要表达在造血系统.

最近研究表明,

在造血系统Tumour和一些器官的实体瘤表面可见CD24高表达。近几年很多学者认为:CD24在前列腺癌、非小细胞肺癌、鼻咽癌、原发性肝细胞癌、胆管细胞癌、麦克尔细胞癌、神经源性Tumour、胰腺癌、胃癌、结肠癌、肾细胞癌、B细胞淋巴瘤、乳腺癌等Tumour组织中表达增强, 且和Tumour侵袭转移、复发和预后相关。