CD24 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD24, Monoclonal Antibody
Full Product Name	Purified Anti-Human CD24 Antibody [SN3]
Product Gene Name	anti-CD24 antibody
Clonality	Monoclonal
Isotype	Mouse IgG1, kappa
Clone Number	SN3
Host	Mouse
Species Reactivity	Human
Form/Format	Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.
Concentration	>=1mg/mL (lot specific)
Preparation and Storage	Store at 4 degree C valid for 12 months or -20 degree C valid for long term storage, avoid freeze/thaw cycles.
Molecular Weight	80
OMIM	phenotype 600074
3D Structure	ModBase 3D Structure for P25063
Product Categories/Family for anti-CD24 antibody	FC Purified Antibodies; Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD24 antibody	Flow Cytometry (FC/FACS/FCM)
Related Product Information for anti-CD24 antibody	This gene encodes a sialoglycoprotein that is expressed on mature granulocytes and B cells and modulates growth and differentiation signals to these cells. The precursor protein is cleaved to a short 32 amino acid mature peptide which is anchored via a glycosyl phosphatidylinositol (GPI) link to the cell surface. This gene was missing from previous genome assemblies, but is properly located on chromosome 6. Non-transcribed pseudogenes have been designated on chromosomes 1, 15, 20, and Y. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-CD24 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD24 purchase	MBS2578906 is an antibody targeting CD24. Also known as Purified Anti-Human CD24 Antibody [SN3]. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD24. It may not necessarily be applicable to this product.

NCBI GI #	143811372
NCBI GeneID	100133941
NCBI Accession #	P25063.2
UniProt Primary Accession #	P25063

UniProt Secondary Accession #	Q16257; Q53XS0
UniProt Related Accession #	P25063
NCBI Official Full Name	Signal transducer CD24
NCBI Official Synonym Full Names	CD24 molecule
NCBI Official Symbol	CD24
NCBI Official Synonym Symbols	CD24A
UniProt Protein Name	Signal transducer CD24
UniProt Synonym Protein Names	Small cell lung carcinoma cluster 4 antigen; CD_antigen: CD24
Protein Family	Signal transducer
UniProt Gene Name	CD24
UniProt Synonym Gene Names	CD24A
UniProt Entry Name	CD24_HUMAN
NCBI Protein Information	signal transducer CD24; CD24 antigen (small cell lung carcinoma cluster 4 antigen)
UniProt Comments for CD24	CD24: 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. Genetic variations in CD24 are associated with susceptibility to multiple sclerosis (MS). 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. 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. Belongs to the CD24 family. Protein type: Membrane protein, GPI anchor; Cell surface; Cell development/differentiation; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 6q21 Cellular Component: cell surface; membrane; plasma membrane; lipid raft Molecular Function: protein binding; signal transducer activity; protein tyrosine kinase activator activity; protein kinase binding Biological Process: respiratory burst; axon guidance; cell migration; Wnt receptor signaling pathway; regulation of phosphorylation; B cell receptor transport into lipid raft; immune response-regulating cell surface receptor signaling pathway; chemokine receptor transport out of lipid raft; positive regulation of activated T cell proliferation; positive regulation of MAP kinase activity; cell activation; cholesterol homeostasis; cell-cell adhesion; elevation of cytosolic calcium ion concentration; response to estrogen stimulus; response to molecule of bacterial origin; regulation of MAPKKK cascade; negative regulation of transforming growth factor-beta3 production; T cell costimulation; regulation of epithelial cell differentiation; response to hypoxia; regulation of cytokine and chemokine mediated signaling pathway Disease: Multiple Sclerosis, Susceptibility To
Research Articles on CD24	**1.** CD133+ renal stem cells always co-express CD24 in adult human kidney.
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