# CD24 Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | CD24, Recombinant Protein |
| **Full Product Name** | Recombinant Human CD24 |
| **Product Gene Name** | CD24 recombinant protein |
| **Product Synonym Names** | Signal transducer CD24; Small cell lung carcinoma cluster 4 antigen; CD24; CD24A |
| **Sequence** | Ser27-Gly5 9 |
| **Host** | Mammalian Cells |
| **Form/Format** | Lyophilized from a 0.2um filtered solution of PBS, pH7.4 |
| **Purity/Purification** | Greater than 95% as determined by SDS-PAGE. |
| **Preparation and Storage** | The lyophilized protein is stable at -20 degree C for up to 1 year. After reconstitution, the protein solution is stable at -20 to -80 degree C for 3 months or 1 week at 2 to 8 degree C under sterile conditions. For extended storage, it is recommended to further dilute in working aliquots, avoid repeated freeze/thaw cycle. |
| **Molecular Weight** | 80 |
| **OMIM** | phenotype 600074 |
| **3D Structure** | ModBase 3D Structure for P25063 |
| **Species** | Human |
| **Endotoxin** | < 1 EU/ug as determined by LAL test. |
| **Tag** | C-terminal mFc Tag |
| **Reconstitution** | Centrifuge the vial at 10000rpm for 30s before opening, reconstitute in sterile distilled water to a concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex. |
| **Product Categories/Family for CD24 recombinant protein** | recombinant-proteins |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Applications Tested/Suitable for CD24 recombinant protein** | Western Blot (WB), ELISA (EIA) |
| **Related Product Information for CD24 recombinant protein** | MBS7621896 is a recombinant protein targeting CD24. Also known as Recombinant Human CD24. Host: Mammalian Cells. |
| **Other Notes** | Small volumes of CD24 recombinant protein 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. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 143811372 |
| **NCBI GeneID** | 100133941 |
| **NCBI Accession #** | P25063.2 |

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| **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) |
| **NCBI Summary for CD24** | 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. [provided by RefSeq, Apr 2014] |

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| **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.<br><br>Protein type: Membrane protein, GPI anchor; Cell surface; Cell development/differentiation; Motility/polarity/chemotaxis<br><br>Chromosomal Location of Human Ortholog: 6q21<br><br>Cellular Component: cell surface; membrane; plasma membrane; lipid raft<br><br>Molecular Function: protein binding; signal transducer activity; protein tyrosine kinase activator activity; protein kinase binding<br><br>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<br><br>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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