CD116 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD116, Polyclonal Antibody
Full Product Name	CD116 Rabbit pAb
Product Gene Name	anti-CD116 antibody
Product Synonym Names	CSF2RA; CSF2R; CSF2RY; Granulocyte-macrophage colony-stimulating factor receptor subunit alpha; GM-CSF-R-alpha; GMCSFR-alpha; GMR-alpha; CDw116; CD116
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C for 1 year.
OMIM	300770
3D Structure	ModBase 3D Structure for P15509
Immunogen	Synthesized peptide derived from Granulocyte-macrophage colony-stimulating factor receptor subunit alpha at AA range: 121-170
Cellular Localization	Cell Membrane, Membrane, Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD116 antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin, ELISA (EIA)
Application Notes for anti-CD116 antibody	WB: 1:500-1:2000 IHC-P: 1:100-300 ELISA: 1:20000
Related Product Information for anti-CD116 antibody	MBS8540260 is an antibody targeting CD116. Also known as CD116 Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CD116 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD116. It may not necessarily be applicable to this product.

NCBI GI #	238908515
NCBI GeneID	1438
NCBI Accession #	NP_001155001.1
UniProt Primary Accession #	P15509
UniProt Related Accession #	P15509

GenBank Nucleotide #	NP_001155001.1
NCBI Official Full Name	granulocyte-macrophage colony-stimulating factor receptor subunit alpha isoform a
NCBI Official Synonym Full Names	colony stimulating factor 2 receptor alpha subunit
NCBI Official Symbol	CSF2RA
NCBI Official Synonym Symbols	GMR; CD116; CSF2R; SMDP4; CDw116; CSF2RX; CSF2RY; GMCSFR; CSF2RAX; CSF2RAY; alphaGMR; GM-CSF-R-alpha
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor receptor subunit alpha
UniProt Synonym Protein Names	CDw116
Protein Family	Granulocyte-macrophage colony-stimulating factor receptor
UniProt Gene Name	CSF2RA
UniProt Synonym Gene Names	CSF2R; CSF2RY; GM-CSF-R-alpha; GMCSFR-alpha; GMR-alpha
UniProt Entry Name	CSF2R_HUMAN
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor receptor subunit alpha
NCBI Summary for CD116	The protein encoded by this gene is the alpha subunit of the heterodimeric receptor for colony stimulating factor 2, a cytokine which controls the production, differentiation, and function of granulocytes and macrophages. The encoded protein is a member of the cytokine family of receptors. This gene is found in the pseudoautosomal region (PAR) of the X and Y chromosomes. Multiple transcript variants encoding different isoforms have been found for this gene, with some of the isoforms being membrane-bound and others being soluble. [provided by RefSeq, Jul 2008]
UniProt Comments for CD116	CSF2RA: Low affinity receptor for granulocyte-macrophage colony- stimulating factor. Transduces a signal that results in the proliferation, differentiation, and functional activation of hematopoietic cells. Defects in CSF2RA are the cause of pulmonary surfactant metabolism dysfunction type 4 (SMDP4). A rare lung disorder due to impaired surfactant homeostasis. It is characterized by alveolar filling with floccular material that stains positive using the periodic acid-Schiff method and is derived from surfactant phospholipids and protein components. Excessive lipoproteins accumulation in the alveoli results in severe respiratory distress. Belongs to the type I cytokine receptor family. Type 5 subfamily. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, cytokine Chromosomal Location of Human Ortholog: Xp22.32 and Yp11.3 Cellular Component: integral to plasma membrane; extracellular region; plasma membrane Molecular Function: hematopoietin/interferon-class (D200-domain) cytokine receptor activity; receptor activity Biological Process: response to ethanol; cytokine and chemokine mediated signaling pathway Disease: Surfactant Metabolism Dysfunction, Pulmonary, 4
Research Articles on CD116	**1.** Family-based whole genome analysis of a family with hereditary pulmonary alveolar proteinosis revealed a homozygous deletion that disrupts CSF2RA, CRLF2, and IL3RA gene in the pseudoautosomal region of the X chromosome in the affected child and one of asymptomatic siblings.
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