

Human CD43 Mouse mAb

Catalog # AP99803

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P16150
Other Accession	P16150
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	40322
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CD43
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SUBUNIT	Interacts with HIPK2 via the cytoplasmic domain. Interacts with RDX.
Post-translational modifications	Glycosylated; has a high content of sialic acid and O-linked carbohydrate structures.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a highly sialylated glycoprotein that functions in antigen-specific activation of T cells, and is found on the surface of thymocytes, T lymphocytes, monocytes, granulocytes, and some B lymphocytes. It contains a mucin-like extracellular domain, a transmembrane region and a carboxy-terminal intracellular region. The extracellular domain has a high proportion of serine and threonine residues, allowing extensive O-glycosylation, and has one potential N-glycosylation site, while the carboxy-terminal region has potential phosphorylation sites that may mediate transduction of activation signals. Different glycoforms of this protein have been described. In stimulated immune cells, proteolytic cleavage of the extracellular domain occurs in some cell types, releasing a soluble extracellular fragment. Defects in expression of this gene are associated with Wiskott-Aldrich syndrome. [provided by RefSeq, Sep 2017]

Additional Information

Gene ID	6693
Other Names	CD43; GALGP; GPL115; LEU-22; LSN; A630014B01Rik; Ly-48; Ly48; LEUK_HUMAN; SPN; Galactoglycoprotein (GALGP); Leukocyte sialoglycoprotein; Sialophorin; LEUK_MOUSE; B-cell differentiation antigen LP-3; Lymphocyte antigen 48 (Ly-48); sialophorin (gpL115, leukosialin, CD43); leukosialin
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.
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Protein Information

Name	SPN
Synonyms	CD43
Function	Predominant cell surface sialoprotein of leukocytes which regulates multiple T-cell functions, including T-cell activation, proliferation, differentiation, trafficking and migration. Positively regulates T-cell trafficking to lymph-nodes via its association with ERM proteins (EZR, RDX and MSN) (By similarity). Negatively regulates Th2 cell differentiation and predisposes the differentiation of T-cells towards a Th1 lineage commitment. Promotes the expression of IFN-gamma by T-cells during T-cell receptor (TCR) activation of naive cells and induces the expression of IFN-gamma by CD4(+) T-cells and to a lesser extent by CD8(+) T-cells (PubMed:18036228). Plays a role in preparing T-cells for cytokine sensing and differentiation into effector cells by inducing the expression of cytokine receptors IFNGR and IL4R, promoting IFNGR and IL4R signaling and by mediating the clustering of IFNGR with TCR (PubMed:24328034). Acts as a major E-selectin ligand responsible for Th17 cell rolling on activated vasculature and recruitment during inflammation. Mediates Th17 cells, but not Th1 cells, adhesion to E- selectin. Acts as a T-cell counter-receptor for SIGLEC1 (By similarity).
Cellular Location	Membrane; Single-pass type I membrane protein. Cell projection, microvillus {ECO:0000250 UniProtKB:P13838}. Cell projection, uropodium {ECO:0000250 UniProtKB:P15702}. Note=Localizes to the uropodium and microvilli via its interaction with ERM proteins (EZR, RDX and MSN) {ECO:0000250 UniProtKB:P13838, ECO:0000250 UniProtKB:P15702}
Tissue Location	Cell surface of thymocytes, T-lymphocytes, neutrophils, plasma cells and myelomas

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