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CLEC12B Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11585b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q2HXU8
Other Accession	NP_001123470.1, NP_995324.2
Reactivity	Human
Predicted	Mouse, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB29037
Calculated MW	31616
Antigen Region	249-276

Additional Information

Gene ID	387837
Other Names	C-type lectin domain family 12 member B, Macrophage antigen H, CLEC12B
Target/Specificity	This CLEC12B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 249-276 amino acids from the C-terminal region of human CLEC12B.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CLEC12B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CLEC12B {ECO:0000303|PubMed:34310951, ECO:0000312|HGNC:HGNC:31966}
Function	Inhibitory receptor postulated to negatively regulate immune and non-immune functions (PubMed:17562706, PubMed:34310951). Upon

	phosphorylation, recruits SH2 domain-containing PTPN6 and PTPN11 phosphatases to its ITIM motif and antagonizes activation signals (PubMed:17562706, PubMed:34310951). Although it inhibits KLRK1/NKG2D-mediated signaling, it does not bind known ligands of KLRK1/NKG2D and therefore is not its inhibitory counterpart (PubMed:17562706). May limit activation of myeloid cell subsets in response to infection or tissue inflammation (PubMed:17562706). May protect target cells against natural killer cell-mediated lysis (PubMed:17562706). May negatively regulate cell cycle and differentiation of melanocytes via inactivation of STAT3 (PubMed:34310951). Plays an important function in the skin immunity by modulating melanocytes immune function through the phosphorylation of its ITIM domain. Mechanistically, senses exogenous ligands present on S. aureus and E. coli but not gut Listeria monocytogenes and modulates the IFNgamma-induced production of chemokines and subsequent chemoattraction of immune cells through the STAT1/IRF1/CXCL9 axis (PubMed:39736308).
Cellular Location	Cell membrane; Single-pass type II membrane protein
Tissue Location	Detected in colon, heart, kidney, liver, lung, mammary gland, ovary, spleen and testis (PubMed:17562706). Expressed in melanocytes (at protein level) (PubMed:34310951)

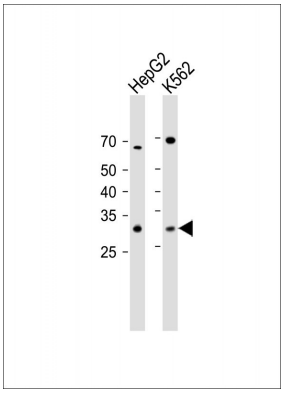
Background

Cell surface receptor that protects target cells against natural killer cell-mediated lysis. Modulates signaling cascades and mediates tyrosine phosphorylation of target MAP kinases.

References

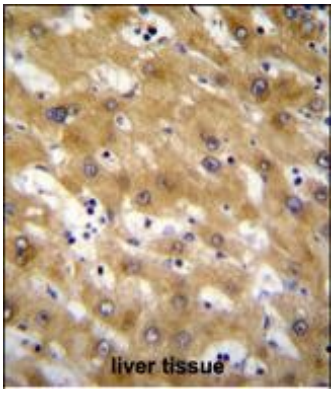
Hoffmann, S.C., et al. J. Biol. Chem. 282(31):22370-22375(2007)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)

Images



All lanes: Anti-CLEC12B Antibody (C-term) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 32 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

CLEC12B Antibody (C-term) (Cat. #AP11585b)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CLEC12B Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



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