10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CLEC2D Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58048

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9UHP7
Reactivity	Rat, Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21849
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CLEC2D
Epitope Specificity	101-207/207
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Single-pass type II membrane protein. Cell surface. Isoform 2, 4: Endoplasmic reticulum.
SIMILARITY	Contains 1 C-type lectin domain.
SUBUNIT	Homodimer or heterodimer; disulfide-linked.
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 member of the natural killer cell receptor C-type lectin family. The encoded protein inhibits osteoclast formation and contains a transmembrane domain near the N-terminus as well as the C-type lectin-like extracellular domain. Several alternatively spliced transcript variants have been identified, but the full-length nature of every transcript has not been defined.

Additional Information

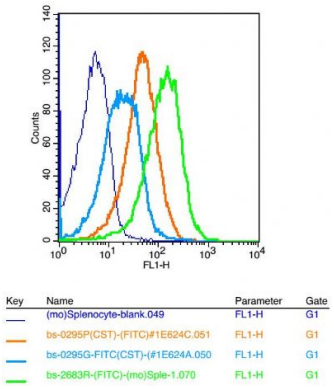
Gene ID	29121
Other Names	C-type lectin domain family 2 member D, Lectin-like NK cell receptor, Lectin-like transcript 1, LLT-1, Osteoclast inhibitory lectin, CLEC2D, CLAX, LLT1, OCIL
Target/Specificity	Detected in fetal heart, brain, lung, chondrocytes, perichondrium and osteoblasts, and in adult splenocytes, thymocytes, lymph-node cells, osteoblasts, growth plate chondrocytes and skeltal muscle overlying the bone (at protein level). Ubiquitous. Detected in thymus, bone marrow, lung, gut, heart, skeletal muscle, ovary, spleen, ileum, liver and kidney.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 □g /test,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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.

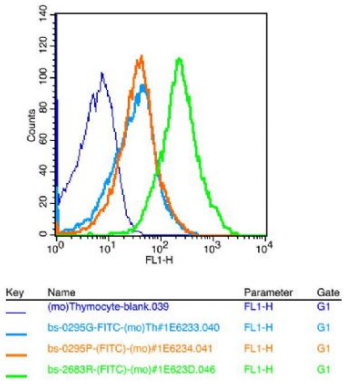
Protein Information

Name	CLEC2D
Synonyms	CLAX, LLT1, OCIL
Function	Receptor for KLRB1 that protects target cells against natural killer cell-mediated lysis (PubMed:16339513, PubMed:20843815). Inhibits osteoclast formation (PubMed:14753741, PubMed:15123656). Inhibits bone resorption (PubMed:14753741). Modulates the release of interferon-gamma (PubMed:15104121). Binds high molecular weight sulfated glycosaminoglycans (PubMed:15123656).
Cellular Location	Cell membrane; Single-pass type II membrane protein [Isoform 4]: Endoplasmic reticulum
Tissue Location	Detected in peripheral blood leukocytes, osteoblasts, lymph node, thymus and spleen. Isoform 1, isoform 2 and isoform 4 are expressed in T- and B-lymphocytes, and at lower levels in NK cells. They are also expressed in B-cell lines and LPS-matured monocyte-derived dendritic cells.

Images



Positive control: (mo)Splenocytes(2% Paraformaldehyde-fixed)
Isotype Control Antibody: Rabbit IgG; Dilution: 1 µg in 100 µl 1 X PBS containing 0.5% BSA
Secondary Antibody: Goat anti-rabbit IgG-FITC; Dilution: 1:200 in 1 X PBS containing 0.5% BSA
Primary Antibody catalog number: AP58048; Dilution: 1 µg in 100 µl 1X PBS containing 0.5% BSA



Blank control: mouse thymouses(blue)
Isotype Control Antibody: Rabbit IgG(orange) ;
Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:100 in 1 X PBS containing 0.5% BSA ;
Primary Antibody Dilution: 1 µl in 100 µL1X PBS containing 0.5% BSA(green).