

VPREB1 Rabbit pAb

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Product Information

Application IHC-P, IHC-F, IF, E

Primary Accession P12018

Reactivity Rat, Pig, Mouse, Rabbit, Horse

Host Rabbit Clonality Polyclonal 16605 Calculated MW **Physical State** Liquid

Immunogen KLH conjugated synthetic peptide derived from Human VPREB1/CD179a

61-145/145 **Epitope Specificity**

Isotype IgG

SUBUNIT

affinity purified by Protein A **Purity**

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. **SIMILARITY**

Belongs to the immunoglobulin superfamily. Contains 1 Ig-like V-type

(immunoglobulin-like) domain. Associates non-covalently with IGLL1.

This product as supplied is intended for research use only, not for use in **Important Note**

human, therapeutic or diagnostic applications.

Background Descriptions VpreB is expressed in pre-B lymphocytes, but not in mature B cells or in other

blood cell lineages. The gene which encodes VpreB maps to human

chromosome 22q11.2. The VpreB and Lambda 5 genes encode the Iota and Omega polypeptide chains, respectively, which associate with the Ig-Mu chain to form a molecular complex that is expressed on the surface of pre-B cells. This complex presumably regulates Ig gene rearrangements in the early steps of B cell differentiation. In the mouse the two genes are simultaneously expressed in pre-B cells and belong to the same transcription unit. A primary transcript is synthesized from which the pre-B and Lambda 5 mRNAs are derived by alternative splicing. In the human, however, the two genes are

separate and do not belong to the same transcription unit.

Additional Information

Gene ID 7441

Other Names Immunoglobulin iota chain, CD179 antigen-like family member A, Protein

VPreB1, V(pre)B protein, VpreB protein, CD179a, VPREB1, VPREB

Target/Specificity Only expressed by pre-B-cells.

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.

Protein Information

Name VPREB1

Synonyms VPREB

Function Associates with the Ig-mu chain to form a molecular complex that is

expressed on the surface of pre-B-cells. This complex presumably regulates Ig

gene rearrangements in the early steps of B- cell differentiation.

Cellular Location Endoplasmic reticulum {ECO:0000250 | UniProtKB:P13372}

Tissue Location Only expressed by pre-B-cells.

Background

VpreB is expressed in pre-B lymphocytes, but not in mature B cells or in other blood cell lineages. The gene which encodes VpreB maps to human chromosome 22q11.2. The VpreB and Lambda 5 genes encode the Iota and Omega polypeptide chains, respectively, which associate with the Ig-Mu chain to form a molecular complex that is expressed on the surface of pre-B cells. This complex presumably regulates Ig gene rearrangements in the early steps of B cell differentiation. In the mouse the two genes are simultaneously expressed in pre-B cells and belong to the same transcription unit. A primary transcript is synthesized from which the pre-B and Lambda 5 mRNAs are derived by alternative splicing. In the human, however, the two genes are separate and do not belong to the same transcription unit.

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