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CRLF2 Rabbit pAb

Catalog # AP98172

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9HC73
Other Accession	Q9HC73
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42013
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CRLF2
Epitope Specificity	81-180/371
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the type I cytokine receptor family. Type 5 subfamily.Contains 1 fibronectin type-III domain.
SUBUNIT	Heterodimer of CRLF2 and IL7R.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	TSLPR is a type I membrane receptor that forms a functional heterodimeric complex with IL7R to bind TSLP. The TSLP R contains a WSXWS motif required for proper protein folding and a box1 motif important for association with the JAKs. TSLPR has a predicted molecular weight approximately 41 kD, and two further isoforms have been reported that are produced by alternative splicing. The TSLPR is expressed preferentially in myeloid cells including dendritic cells and activated monocytes, and is weakly expressed in T cells. Expression has also been reported in heart, skeletal muscle, and kidney tissues. TSLP binding to the heterodimeric functional receptor (TSLPR and IL7R) activates JAK2, STAT3 and STAT5 to stimulate cell proliferation. Ligand receptor interactions haves been implicated in the development of the hematopoietic system, dendritic cell maturation, and the maintenance and polarization of human Th2 memory T cells in allergic diseases.

Additional Information

Gene ID	64109
Other Names	CRL2; CRLF2Y; TSLPR; CRLF2_HUMAN; CRLF2; Cytokine receptor-like 2; IL-XR; Thymic stromal lymphopoietin protein receptor (TSLP receptor); ILXR; cytokine receptor like factor 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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	CRLF2
Synonyms	CRL2, ILXR, TSLPR
Function	Receptor for thymic stromal lymphopoietin (TSLP). Forms a functional complex with TSLP and IL7R which is capable of stimulating cell proliferation through activation of STAT3 and STAT5. Also activates JAK2 (By similarity). Implicated in the development of the hematopoietic system.
Cellular Location	[Isoform 1]: Cell membrane; Single- pass type I membrane protein
Tissue Location	Expressed in heart, skeletal muscle, kidney and adult and fetal liver. Primarily expressed in dendrites and monocytes Weakly expressed in T-cells

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.