

CD101 Rabbit pAb

Catalog # AP97575

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q93033
Other Accession	Q93033
Reactivity	Human
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	115109
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CD101
Epitope Specificity	51-150/1021
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 7 Ig-like C2-type (immunoglobulin-like) domains.
Post-translational modifications	N-glycosylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	CD101 is a disulfide-linked homodimeric type 1 glycoprotein. The peptide is comprised of 7 extracellular V-type IgSF domains. CD101 is highly expressed on monocytes, granulocytes, mucosal T cells, and on activated peripheral blood T cells. Expression is weak on resting T and B and NK cells, absent from platelets and weak or absent from most hematopoietic cell lines. CD101 is thought to play a co-stimulatory role in TCR/CD3-mediated T cell activation. Monoclonal antibodies against CD101 inhibit allogeneic T cell responses. Studies suggest that CD101 plays a major role in the activation of T cells by skin dendritic cells.

Additional Information

Gene ID	9398
Other Names	EWI-101; IGSF2; V7; IGSF2_HUMAN; CD101; Cell surface glycoprotein V7; Glu-Trp-Ile EWI motif-containing protein 101 (EWI-101); EWI101; CD101 molecule; immunoglobulin superfamily, member 2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:10-100,Flow-Cyt=1 µg/Test
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	CD101
Synonyms	EWI101, IGSF2, V7
Function	Plays a role as inhibitor of T-cells proliferation induced by CD3. Inhibits expression of IL2RA on activated T-cells and secretion of IL2. Inhibits tyrosine kinases that are required for IL2 production and cellular proliferation. Inhibits phospholipase C-gamma-1/PLCG1 phosphorylation and subsequent CD3-induced changes in intracellular free calcium. Prevents nuclear translocation of nuclear factor of activated T-cell to the nucleus. Plays a role in the inhibition of T- cell proliferation via IL10 secretion by cutaneous dendritic cells. May be a marker of CD4(+) CD56(+) leukemic tumor cells.
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Expressed in lung, thymus and small intestine. Detected in cutaneous dendritic cells, activated T-cells, monocytes and granulocytes as well as with epithelial cells with dendritic morphology. Expressed in some leukemic cells, the CD4(+) CD56(+) blastic tumor cells, as well as in Langerhans cells from LCH (Langerhans cell histiocytosis) patients.

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