

C17orf87 Rabbit pAb

C17orf87 Rabbit pAb

Catalog # AP55242

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6UWF3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16618
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C17orf87
Epitope Specificity	1-100/145
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	Membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	C17orf87 (chromosome 17 open reading frame 87) is a 145 amino acid protein that is encoded by a gene mapping to human chromosome 17. Chromosome 17 makes up over 2.5% of the human genome with about 81 million bases encoding over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes. Chromosome 17 is also linked to neurofibromatosis, a condition characterized by neural and epidermal lesions, and dysregulated Schwann cell growth. Alexander disease, Birt-Hogg-Dube syndrome and Canavan disease are also associated with chromosome 17.

Additional Information

Gene ID	388325
Other Names	SLP adapter and CSK-interacting membrane protein, SLP65/SLP76, Csk-interacting membrane protein, SCIMP, C17orf87
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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

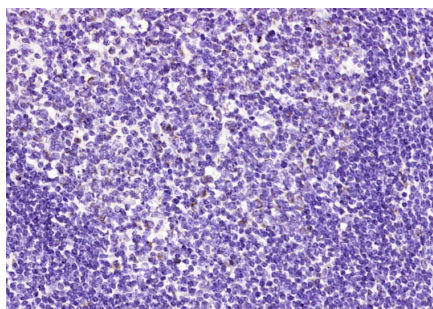
Name	SCIMP
Synonyms	C17orf87
Function	Lipid tetraspanin-associated transmembrane adapter/mediator that acts as a scaffold for Src-family kinases and other signaling proteins in immune cells (PubMed: 21930792). It is involved in major histocompatibility complex class II (MHC-II) signaling transduction in B cells, where it is required in generating the calcium response and enhancing ERK activity upon MHC-II stimulation (PubMed: 21930792). In dendritic cells, it is involved in sustaining CLEC7A/DECTIN1 signaling after CLEC7A activation by fungal beta-glucans (By similarity). It also acts as an agonist-inducible signaling adapter for TLR1, TLR2, TLR3, TLR4, and TLR7 by selectively enabling the expression of pro-inflammatory cytokines IL6 and IL12B in macrophages and acting as a scaffold for phosphorylation of Toll-like receptors by Src-family kinases (By similarity).
Cellular Location	Cell membrane; Single-pass membrane protein. Cell membrane; Lipid-anchor. Cytoplasmic vesicle, phagosome {ECO:0000250 UniProtKB:Q3UU41}. Cell projection, ruffle {ECO:0000250 UniProtKB:Q3UU41}. Cell projection, filopodium {ECO:0000250 UniProtKB:Q3UU41}. Note=Together with MHC-II, associates with lipid-enriched microdomains called tetraspanin-enriched microdomains (TEMs) (PubMed:21930792). Rapidly translocates into immunological synapse (IS) at cell-cell contacts between antigen- presenting cells (APCs) and T-cells (PubMed:21930792). Colocalized with tetraspanins CD37, CD53, and CD81 at the uropod (PubMed:21930792) Present at regions of cell-cell contacts but also at the leading edge of migrating cells (PubMed:21930792). Localizes to phagosomes in dendritic cells after exposure to particulate beta-glucan (By similarity). {ECO:0000250 UniProtKB:Q3UU41, ECO:0000269 PubMed:21930792}
Tissue Location	Expressed in antigen-presenting cells, like peripheral blood leukocytes and monocyte-derived dendritic cells (MDDC) (at protein level) (PubMed:21930792). Highly expressed in lymph nodes and spleen. Expressed in antigen-presenting cells (PubMed:21930792) Faintly expressed in the majority of nonimmune system tissues (PubMed:21930792).

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images

Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C17orf87) Polyclonal Antibody,



Unconjugated (AP55242) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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