

CCDC88B Rabbit pAb

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Catalog # AP58892

Product Information

Primary Accession	A6NC98
Predicted	Rat, Pig, Dog, Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	164809
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CCDC88B/BRLZ/HkRP3
Epitope Specificity	1271-1476/1476
Isotype	IgG
Purity	affinity purified by Protein A

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

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

Background Descriptions HkRP3, also known as CCDC88B (coiled-coil domain-containing protein 88B) or BRLZ (brain leucine zipper domain-containing protein), is a 1,476 amino acid protein that belongs to the CCDC88 family. Members of the hook-related protein family are characterized by the presence of a C-terminal hook-related domain and an N-terminal potential microtubule binding domain. HkRP3 may be involved in the linkage of various organelles to microtubules, and exists as six alternatively spliced isoforms. The gene encoding HkRP3 maps to human chromosome 11q13.1 and mouse chromosome 19 A. Chromosome 11 houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

Additional Information

Gene ID	283234
Other Names	Coiled-coil domain-containing protein 88B, Brain leucine zipper domain-containing protein, Gipie, Hook-related protein 3, HkRP3, CCDC88B, BRLZ
Dilution	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	CCDC88B
Synonyms	BRLZ
Function	Acts as a positive regulator of T-cell maturation and inflammatory function. Required for several functions of T-cells, in both the CD4(+) and the CD8(+) compartments and this includes expression of cell surface markers of activation, proliferation, and cytokine production in response to specific or non-specific stimulation (By similarity). Enhances NK cell cytotoxicity by positively regulating polarization of microtubule-organizing center (MTOC) to cytotoxic synapse, lytic granule transport along microtubules, and dynein-mediated clustering to MTOC (PubMed: 25762780). Interacts with HSPA5 and stabilizes the interaction between HSPA5 and ERN1, leading to suppression of ERN1-induced JNK activation and endoplasmic reticulum stress-induced apoptosis (PubMed: 21289099).
Cellular Location	Membrane {ECO:0000250 UniProtKB:Q4QRL3}; Peripheral membrane protein. Cytoplasm, cytoskeleton, microtubule organizing center Endoplasmic reticulum. Golgi apparatus. Cytoplasm
Tissue Location	Expressed in endothelium (at protein level) (PubMed:21289099). Expressed in NK cells (at protein level) (PubMed:25762780).

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