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UNC93B Rabbit pAb

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Catalog # AP59022

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H1C4
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66631
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human UNC93B
Epitope Specificity	451-550/597
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; Multi pass membrane protein.
DISEASE	Defects in UNC93B1 are associated with herpes simplex encephalitis type 1 (HSE1) [MIM:610551]. HSE is a rare complication of human herpesvirus 1 (HHV-1) infection, occurring in only a small minority of HHV-1 infected individuals. HSE is characterized by hemorrhagic necrosis of parts of the temporal and frontal lobes. Onset is over several days and involves fever, headache, seizures, stupor, and often coma, frequently with a fatal outcome. Note=Mutations in UNC93B1 resulting in autosomal recessive UNC93B1 deficieny predispose otherwise healthy individuals to isolated herpes simplex encephalitis due to impaired IFNs production. UNC93B1 deficieny, however, does not compromise immunity to most pathogens, unlike most known primary immunodeficiencies.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	UNC93B is a protein with similarity to the C. elegans unc93 protein. The Unc93 protein is involved in the regulation or coordination of muscle contraction in the worm. Defects in UNC93B are associated with susceptibility to herpes simplex encephalitis (HSE) which is a rare complication of human herpesvirus 1 (HHV-1) infection.

Additional Information

Gene ID	81622
Other Names	Protein unc-93 homolog B1, Unc-93B1, hUNC93B1, UNC93B1 (HGNC:13481), UNC93, UNC93B
Dilution	IHC-P=1:100-500,IHC-F=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	UNC93B1 (HGNC:13481)
Synonyms	UNC93, UNC93B
Function	Plays an important role in innate and adaptive immunity by regulating nucleotide-sensing Toll-like receptor (TLR) signaling. Required for the transport of a subset of TLRs (including TLR3, TLR7 and TLR9) from the endoplasmic reticulum to endolysosomes where they can engage pathogen nucleotides and activate signaling cascades. May play a role in autoreactive B-cells removal.
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Endosome Lysosome. Cytoplasmic vesicle, phagosome Note=Relocalizes from endoplasmic reticulum to endosome and lysosome upon cell-stimulation with CpG dinucleotides (By similarity) Colocalizes with LAMP5 in large endosomal intracellular vesicles {ECO:0000250, ECO:0000269|PubMed:18082565, ECO:0000269|PubMed:21642595}
Tissue Location	Expressed in plasmocytoid dendritic cells (at protein level). Highly expressed in antigen-presenting cells. Expressed in heart, and at lower level in kidney. Expressed at low level in other tissues.

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