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DAP13 Rabbit pAb

Catalog # AP97730

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9UI09
Other Accession	Q9UI09
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17114
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DAP13
Epitope Specificity	51-145/145
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 complex I NDUFA12 subunit family.
DISEASE	Defects in NDUFA12 are the cause of Leigh syndrome (LS) [MIM:256000]. An early-onset progressive neurodegenerative disorder characterized by the presence of focal, bilateral lesions in one or more areas of the central nervous system including the brainstem, thalamus, basal ganglia, cerebellum and spinal cord. Clinical features depend on which areas of the central nervous system are involved and include subacute onset of psychomotor retardation, hypotonia, ataxia, weakness, vision loss, eye movement abnormalities, seizures, and dysphagia.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein which is part of mitochondrial complex 1, part of the oxidative phosphorylation system in mitochondria. Complex 1 transfers electrons to ubiquinone from NADH which establishes a proton gradient for the generation of ATP. Mutations in this gene are associated with Leigh syndrome due to mitochondrial complex 1 deficiency. Pseudogenes of this gene are located on chromosomes 5 and 13. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2012]

Additional Information

Gene ID	55967
Other Names	B17.2; DAP13; MC1DN23; 2410011G03Rik; CI-B17.2; CIB17.2; RGD1311462; NDUAC_BOVIN; NDUFA12; Complex I-B17.2 (CI-B17.2 | CIB17.2); NADH-ubiquinone oxidoreductase subunit B17.2; NDUAC_HUMAN; 13 kDa differentiation-associated protein; NDUAC_MOUSE; NADH:ubiquinone oxidoreductase subunit A12; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12; complex I B17.2 subunit

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	NDUFA12
Synonyms	DAP13
Function	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.
Cellular Location	Mitochondrion inner membrane; Peripheral membrane protein; Matrix side

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