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[Primary Antibody]

Rabbit Anti-DAP13 antibody

Catalog Number: SL14196R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	DAP13
Immunogen:	KLH conjugated synthetic peptide derived from human DAP13: 51-145/145
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Rat)
Predicted MW.:	17kDa
Subcellular Location:	cytoplasmic Mitochondrion
Background:	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] **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

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	to be ubiquinone. **Subcellular Location:** Mitochondrion inner membrane. 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. **Similarity:** Belongs to the complex I NDUFA12 subunit family. **Database links:** **Entrez Gene:** 55967 Human **Entrez Gene:** 281742 Cow **Entrez Gene:** 66414 Mouse **Entrez Gene:** 299739 Rat Omim: 614530 Human **SwissProt:** O97725 Cow **SwissProt:** Q9UI09 Human **SwissProt:** Q7TMF3 Mouse **Unigene:** 506374 Human **Unigene:** 27886 Mouse **Unigene:** 461501 Mouse

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