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Rabbit Anti-IDI2 antibody

SL15540R

Product Name:	IDI2
Chinese Name:	异戊烯基焦磷酸异构酶2抗体
Alias:	IDI2_HUMAN; Isopentenyl-diphosphate Delta-isomerase 2; Isopentenyl pyrophosphate isomerase 2; IPP isomerase 2; IPPI2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Chicken,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	27kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human IDI2:1-100/227
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	IDI2 is a 227 amino acid protein that belongs to the IPP isomerase type 1 family. Localizing to the peroxisome, IDI2 is expressed in skeletal muscle and contains one nudix hydrolase domain. IDI2 utilizes magnesium as a cofactor and participates in isoprenoid biosythesis. IDI2 catalytically converts isopentenyl diphosphate (IPP) to its electrophilic isomer, dimethylallyl diphosphate (DMAPP), a substrate for subsequent reactions that synthesize farnesyl diphosphate and, ultimately, cholesterol. The gene

encoding IDI2 maps to human chromosome 10p15.3. Segmental copy-number gains to the IDI2 gene may contribute to the pathogenesis of sporadic amyotrophic lateral sclerosis (SALS). SALS, also known as Lou Gehrig's disease, is a motor neuron disease characterized by neuron degeneration

Function:
Catalyzes the 1,3-allylic rearrangement of the homoallylic substrate isopentenyl (IPP) to its highly electrophilic allylic isomer, dimethylallyl diphosphate (DMAPP).

Subcellular Location:
Peroxisome.

Tissue Specificity:
Detected in skeletal muscle.

Similarity:
Belongs to the IPP isomerase type 1 family.
Contains 1 nudix hydrolase domain.

SWISS:
Q9BXS1

Gene ID:
91734

Database links:

Entrez Gene: 91734 Human

Entrez Gene: 320581 Mouse

Entrez Gene: 502143 Rat

SwissProt: Q9BXS1 Human

SwissProt: Q4FZF0 Mouse

Unigene: 591325 Human

Unigene: 9270 Human

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