

IDI2 Rabbit pAb

Catalog # AP96994

Product Information

Application	WB
Primary Accession	Q9BXS1
Other Accession	Q9BXS1
Reactivity	Mouse
Predicted	Human, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26753
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IDI2
Epitope Specificity	1-100/227
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 IPP isomerase type 1 family. Contains 1 nudix hydrolase domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 biosynthesis. 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

Additional Information

Gene ID	91734
Other Names	IPPI2; 4833405L16Rik; RGD1559783; RGD1562352; IDI2_HUMAN; IDI2; Isopentenyl pyrophosphate isomerase 2 (IPP isomerase 2 IPPI2); 5.3.3.2; Q4FZF0_MOUSE; isopentenyl-diphosphate delta isomerase 2
Dilution	WB=1:500-2000
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	IDI2
Function	Catalyzes the 1,3-allylic rearrangement of the homoallylic substrate isopentenyl (IPP) to its highly electrophilic allylic isomer, dimethylallyl diphosphate (DMAPP).
Cellular Location	Peroxisome.
Tissue Location	Muscle-specific expression.

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