

LIPT2 Rabbit pAb

Catalog # AP97086

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	A6NK58
Other Accession	A6NK58
Reactivity	Human, Mouse
Predicted	Rat, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25195
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LIPT2
Epitope Specificity	32-130/231
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 lipB family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	LIPT2 is a 231 amino acid mitochondrial protein that belongs to the LipB family. LIPT2 catalyzes the exchange of octanoic acid from octanoyl-acyl-carrier-protein to lipoate-dependent enzymes. The gene encoding LIPT2 maps to human chromosome 11, which comprises approximately 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and thalassemia are caused by HBB gene mutations, while Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11-encoded genes.

Additional Information

Gene ID	387787
Other Names	2610209A20Rik; RGD1305211; LIPT2_HUMAN; LIPT2; Lipoate-protein ligase B; Lipoyl/octanoyl transferase; Lipoyltransferase 2; Octanoyl-[acyl-carrier-protein]-protein N-octanoyltransferase; LIPT2_MOUSE; 2.3.1.181; lipoyl(octanoyl) transferase 2; lipoyl(octanoyl) transferase 2 (putative)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

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.
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Protein Information

Name	LIPT2 (HGNC:37216)
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Function	Catalyzes the transfer of endogenously produced octanoic acid from octanoyl-acyl-carrier-protein (octanoyl-ACP) onto the lipoyl domains of lipoate-dependent enzymes such as the protein H of the glycine cleavage system (GCSH) (PubMed: 28757203). Lipoyl-ACP can also act as a substrate although octanoyl-ACP is likely to be the physiological substrate (By similarity).
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Cellular Location	Mitochondrion
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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.