

DARS2 Rabbit pAb

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Catalog # AP55455

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6PI48
Reactivity	Rat
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73563
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DARS2
Epitope Specificity	551-645/645
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion matrix.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. It is a mitochondrial enzyme that specifically aminoacylates aspartyl-tRNA. Mutations in this gene are associated with leukoencephalopathy with brainstem and spinal cord involvement and lactate elevation (LBSL). [provided by RefSeq, Nov 2009]

Additional Information

Gene ID	55157
Other Names	Aspartate--tRNA ligase, mitochondrial, 6.1.1.12, Aspartyl-tRNA synthetase, AspRS, DARS2
Dilution	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.

Protein Information

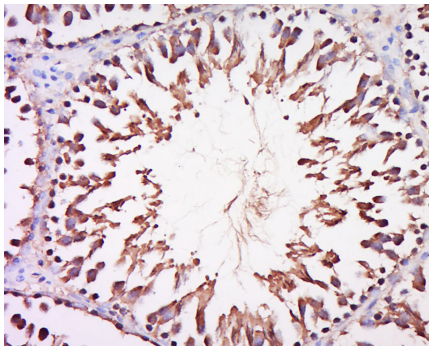
Name	DARS2 (HGNC:25538)
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Function	Catalyzes the attachment of aspartate to tRNA(Asp) in a two- step reaction: aspartate is first activated by ATP to form Asp-AMP and then transferred to the acceptor end of tRNA(Asp).
Cellular Location	Mitochondrion matrix Mitochondrion membrane

Background

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Images



Tissue/cell: Rat testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
 Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37 °C for 20 min;
 Incubation: Anti-DARS2 Polyclonal Antibody, Unconjugated(AP55455) 1:500, overnight at 4 °C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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