

For Research Use Only

DARS2 Recombinant antibody

Catalog Number: 85691-2-RR



Basic Information

Catalog Number: 85691-2-RR	GenBank Accession Number: BC045173	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 55157	CloneNo.: 243050E5
Source: Rabbit	UNIPROT ID: Q6PI48	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:250-1:1000
Isotype: IgG	Full Name: aspartyl-tRNA synthetase 2, mitochondrial	
Immunogen Catalog Number: AG4809	Calculated MW: 645 aa, 74 kDa	
	Observed MW: 66-74 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : MCF-7 cells, Jurkat cells, LNCaP cells, A549 cells, HepG2 cells, NCI-H1299 cells IF/ICC : A431 cells,

Background Information

DARS2 is also named as AspRS (aspartyl-tRNA synthetase) and belongs to the class-II aminoacyl-tRNA synthetase family. The deduced 645-amino acid protein has a 47-amino acid mitochondrial targeting signal, resulting in a mature protein of 598 amino acids. DARS2 contains conserved residues involved in ATP binding, tRNA binding, and aspartic acid recognition, as well as catalytic site motifs characteristic of amino acid tRNA synthetases. It is a dimeric proteins(PMID:19443655). Rat aspartyl-tRNA synthetase has a N-terminal polypeptide extension of about 40 amino acid residues which can be removed without impairing its catalytic activity(PMID:9030747). This protein has different molecular mass(55 kDa, 50 kDa,66 kDa) according to the publications(PMID:11306575; 19443655;15299749).

Storage

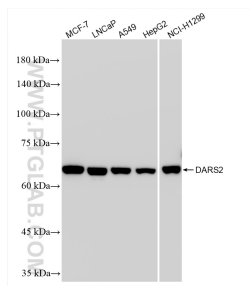
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

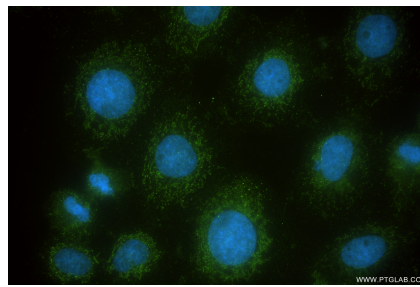
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85691-2-RR (DARS2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using DARS2 antibody (85691-2-RR, Clone: 243050E5) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).