

For Research Use Only

DARS2 Recombinant antibody, PBS Only (Detector)

Catalog Number: 85691-2-PBS



Basic Information

Catalog Number: 85691-2-PBS	GenBank Accession Number: BC045173	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 55157	CloneNo.: 243050E5
Source: Rabbit	UNIPROT ID: Q6PI48	
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, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse

Product Information

85691-2-PBS targets DARS2 as part of a matched antibody pair:

MP02026-2: 85691-3-PBS capture and 85691-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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

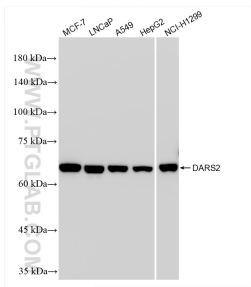
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

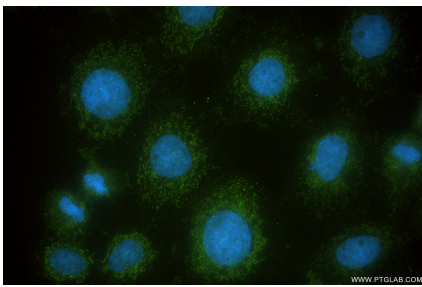
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

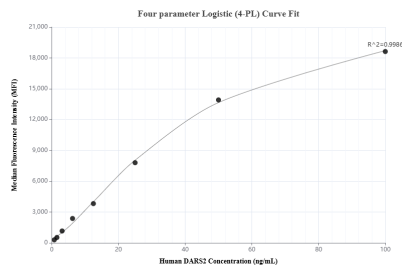
Selected Validation Data



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. This data was developed using the same antibody clone with 85691-2-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 85691-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP02026-2, DARS2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85691-3-PBS. Detection antibody: 85691-2-PBS. Standard: Ag4809. Range: 0.781-100 ng/mL