

## ARG40997 anti-DARS2 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes DARS2
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DARS2
Species	Human
Immunogen	Recombinant protein corresponding to D334-A448 of Human DARS2.
Conjugation	Un-conjugated
Alternate Names	ASPRS; Aspartate--tRNA ligase, mitochondrial; MT-ASPRS; LBSL; AspRS; Aspartyl-tRNA synthetase; EC 6.1.1.12

### Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	74 kDa	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

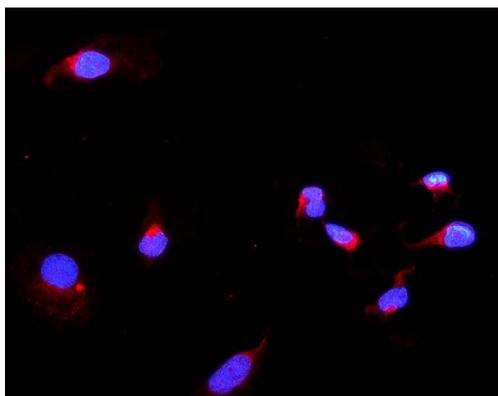
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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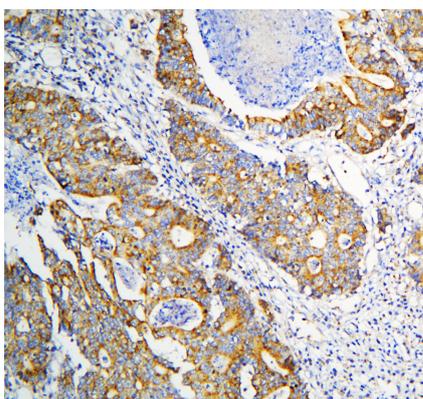
Gene Symbol	DARS2
Gene Full Name	aspartyl-tRNA synthetase 2, mitochondrial
Background	The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. It is a mitochondrial enzyme that specifically aminoacylates aspartyl-tRNA. Mutations in this gene are associated with leukoencephalopathy with brainstem and spinal cord involvement and lactate elevation (LBSL). [provided by RefSeq, Nov 2009]
Calculated Mw	74 kDa
Cellular Localization	Mitochondrion matrix. [UniProt]

## Images



ARG40997 anti-DARS2 antibody ICC/IF image

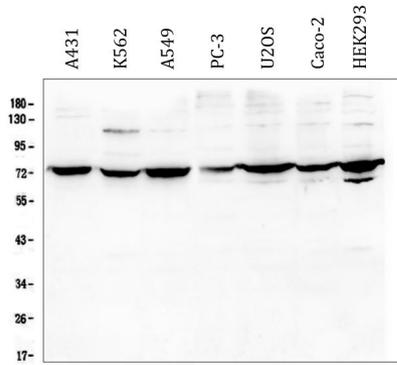
Immunofluorescence: U2OS cells were blocked with 10% goat serum and then stained with ARG40997 anti-DARS2 antibody (red) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



ARG40997 anti-DARS2 antibody IHC-P image

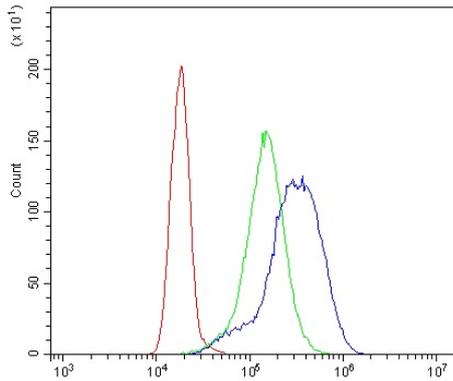
Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40997 anti-DARS2 antibody at 1 µg/ml dilution, overnight at 4°C.

#### ARG40997 anti-DARS2 antibody WB image



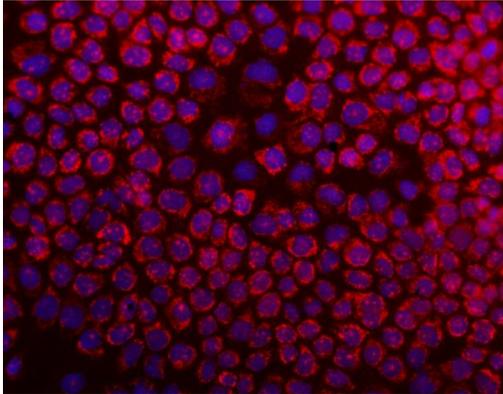
Western blot: 50  $\mu$ g of samples under reducing conditions. A431, K562, A549, PC-3, U2OS, Caco-2 and HEK293 whole cell lysates stained with ARG40997 anti-DARS2 antibody at 0.5  $\mu$ g/ml, overnight at 4°C.

#### ARG40997 anti-DARS2 antibody FACS image



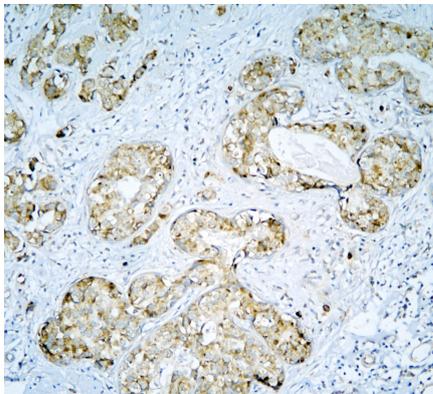
Flow Cytometry: K562 cells were blocked with 10% normal goat serum and then stained with ARG40997 anti-DARS2 antibody (blue) at 1  $\mu$ g/ $10^6$  cells for 30 min at 20°C, followed by incubation with DyLight<sup>®</sup>488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1  $\mu$ g/ $10^6$  cells) used under the same conditions. Unlabelled sample (red) was also used as a control.

#### ARG40997 anti-DARS2 antibody ICC/IF image

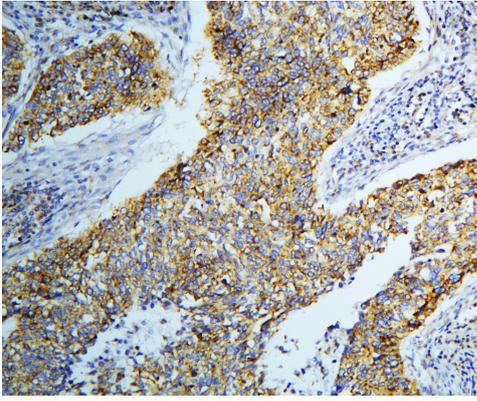


Immunofluorescence: A431 cells were blocked with 10% goat serum and then stained with ARG40997 anti-DARS2 antibody (red) at 2  $\mu$ g/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.

#### ARG40997 anti-DARS2 antibody IHC-P image



Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40997 anti-DARS2 antibody at 1  $\mu$ g/ml dilution, overnight at 4°C.



#### ARG40997 anti-DARS2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40997 anti-DARS2 antibody at 1  $\mu\text{g}/\text{ml}$  dilution, overnight at 4°C.