

Datasheet for ABIN6719279
anti-DARS2 antibody (AA 334-448)



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Overview

Quantity:	100 µg
Target:	DARS2
Binding Specificity:	AA 334-448
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DARS2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-DARS2 Antibody Picoband®
Immunogen:	E.coli-derived human DARS2 recombinant protein (Position: D334-A448).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-DARS2 Antibody Picoband® (ABIN6719279). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	DARS2
Alternative Name:	DARS2 (DARS2 Products)
Background:	Synonyms: Aspartate--tRNA ligase, mitochondrial, Aspartyl-tRNA synthetase, AspRS, DARS2 Tissue Specificity: Detected in brain. Detected at very much lower levels in heart, lung, placenta and skeletal muscle. Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia. Background: 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. 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). The International Radiation Hybrid Mapping Consortium mapped the DARS2 gene to chromosome 1.
Molecular Weight:	74 kDa
Gene ID:	55157

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL Immunocytochemistry/Immunofluorescence, 2 µg/mL Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells ELISA, 0.1-0.5 µg/mL 1. Isohanni, P., Linnankivi, T., Buzkova, J., Lonqvist, T., Pihko, H., Valanne, L., Tienari, P. J., Elovaara, I., Pirttila, T., Reunanen, M., Koivisto, K., Marjavaara, S., Suomalainen, A. DARS2 mutations in mitochondrial leukoencephalopathy and multiple sclerosis. J. Med. Genet. 47: 66-70, 2010. 2. Miyake, N., Yamashita, S., Kurosawa, K., Miyatake, S., Tsurusaki, Y., Doi, H., Saitsu, H., Matsumoto, N. A novel homozygous mutation of DARS2 may cause a severe LBSL variant. (Letter) Clin. Genet. 80: 293-296, 2011.
Comment:	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.