

Mouse anti-Human DARS Monoclonal Antibody | anti-DARS antibody

DARS (Aspartyl-tRNA Synthetase, Cytoplasmic, Aspartate-tRNA Ligase, AspRS, Cell Proliferation-inducing Gene 40 Protein, PIG40) (HRP)

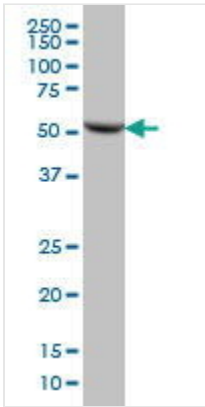
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA25367	Mouse	Human	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

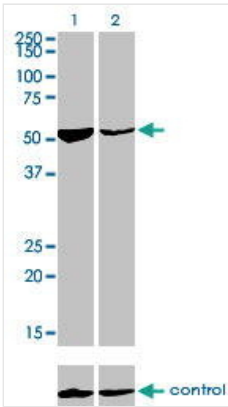
DARS; Monoclonal Antibody; DARS (Aspartyl-tRNA Synthetase; Cytoplasmic; Aspartate-tRNA Ligase; AspRS; Cell Proliferation-inducing Gene 40 Protein; PIG40) (HRP); anti-DARS antibody

PRODUCT SPECIFICATIONS

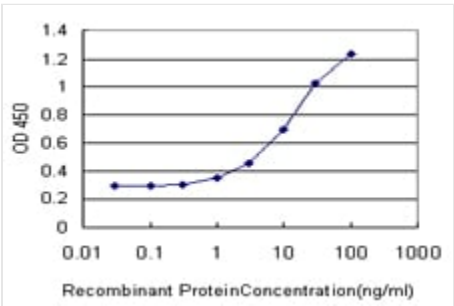
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2F11
Specificity	Recognizes human DARS.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Applicable Applications for anti-DARS antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Immunogen	Partial recombinant corresponding to aa393-500 from human DARS (NP_001340) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KYPLAVRPFYTMPDRNPKQSNSYDMFMRGEEILSGAQRIHDPQLLTERALHHGIDLEKIKAYIDSRFRGAPPHAGGGIGLERVTMLFLGLHNVRQTSMPF
Conjugate	HRP
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.



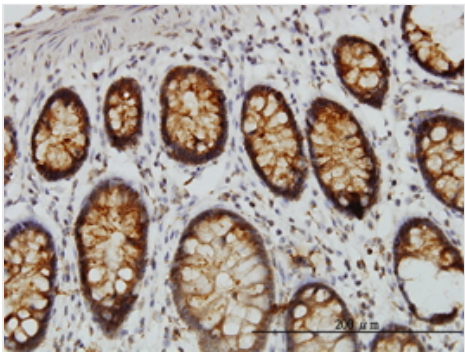
WB (Western Blot)
DARS monoclonal antibody Western Blot analysis of DARS expression in HeLa.



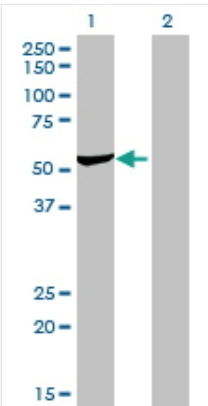
WB (Western Blot)
Western blot analysis of DARS over-expressed 293 cell line, cotransfected with DARS Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with DARS monoclonal antibody. GAPDH (36.1kD) used as specificity and loading control.



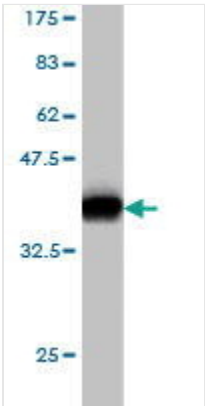
Application Data
Detection limit for recombinant GST tagged DARS is ~0.3ng/ml as a capture antibody.



IHC (Immunohistochemistry)
Immunoperoxidase of monoclonal antibody to DARS on formalin-fixed paraffin-embedded human colon. [antibody concentration 3ug/ml].



WB (Western Blot)
Western Blot analysis of DARS expression in transfected 293T cell line by DARS monoclonal antibody. Lane 1: DARS transfected lysate (57.1kD). Lane 2: Non-transfected lysate.



WB (Western Blot)
Western Blot detection against Immunogen (37.62kD).

ADDITIONAL INFORMATION

Product Categories/Family for anti-DARS antibody	Antibodies; Enzymes; Synthase
References	1. Proteomic identification of putative biomarkers of radiotherapy resistance: a possible role for the 26S proteasome? Smith L, Qutob O, Watson MB, Beavis AW, Potts D, Welham KJ, Garimella V, Lind MJ, Drew PJ, Cawkwell L.Neoplasia. 2009 Nov;11(11):1194-207.

NCBI AND UNIPROT INFORMATION

NCBI GI #	45439306
NCBI GeneID	1615
NCBI Accession #	NP_001340
NCBI GenBank Nucleotide #	NM_001349
UniProt Accession #	P14868; Q2TNI3; Q32Q69; Q53HV4; Q53YC5; Q68CR9; Q9BW52; A8K3J2; D3DP77
Molecular Weight	59.3 kDa (521aa)
NCBI Official Full Name	aspartate--tRNA ligase, cytoplasmic isoform 1
NCBI Official Synonym Full Names	aspartyl-tRNA synthetase
NCBI Official Symbol	DARS
NCBI Official Synonym Symbols	HBSL; aspRS
NCBI Protein Information	aspartate--tRNA ligase, cytoplasmic
UniProt Protein Name	Aspartate--tRNA ligase, cytoplasmic
UniProt Gene Name	DARS
UniProt Synonym Gene Names	AspRS
UniProt Entry Name	SYDC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/dars-antibody-clone-2f11-immunohistochemistry-western-blot-elisa/25367>