

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) (FITC)

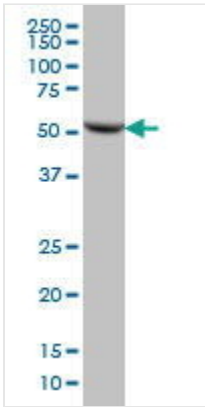
CATALOG # AAA25073	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

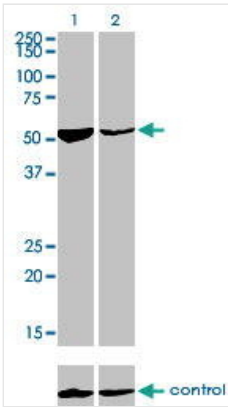
DARS; Monoclonal Antibody; DARS (Aspartyl-tRNA Synthetase; Cytoplasmic; Aspartate-tRNA Ligase; AspRS; Cell Proliferation-inducing Gene 40 Protein; PIG40) (FITC); anti-DARS antibody

PRODUCT SPECIFICATIONS

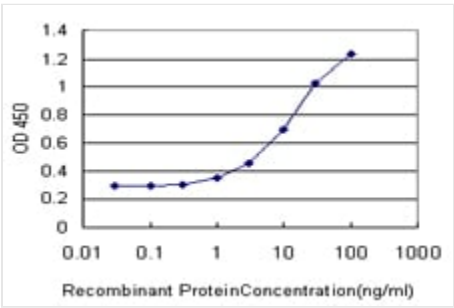
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2F11
Specificity	Recognizes human DARS.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
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	KYPLAVRPFYTMPDPRNPKQSNSYDMFMRGEEILSGAQRIHDPQLLTERALHHGIDLEKIKAYIDSRFRGAPPHAGGGIGLERVTMLFLGLHNVRQTSMPF
Conjugate	FITC
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. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to re-capping.



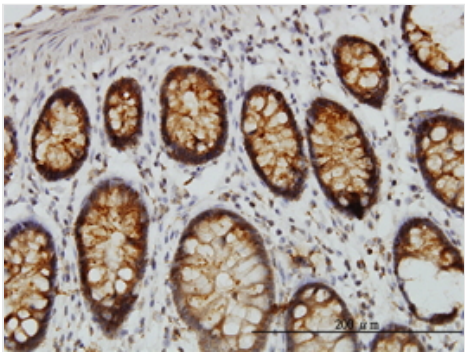
WB (Western Blot)
DARS monoclonal antibody Western Blot analysis of DARS expression in HeLa.



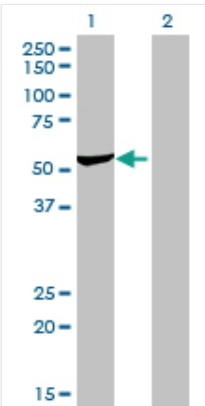
WB (Western Blot)
Western blot analysis of DARS over-expressed 293 cell line, cotransfected with DARS Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with DARS monoclonal antibody. GAPDH (36.1kD) used as specificity and loading control.



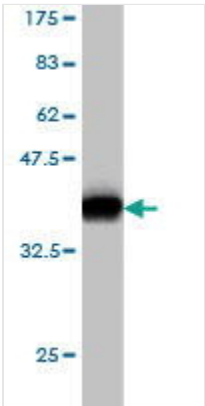
Application Data
Detection limit for recombinant GST tagged DARS is ~0.3ng/ml as a capture antibody.



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/25073>