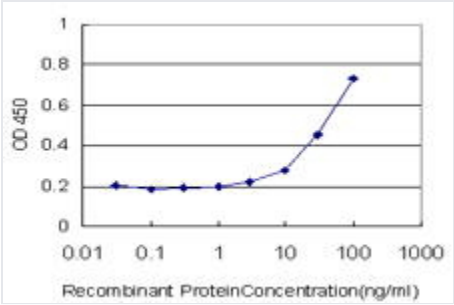
NARS Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	NARS, Monoclonal Antibody
Full Product Name	NARS (Asparaginyl-tRNA Synthetase, ASNRS, NARS1) (PE)
Product Gene Name	anti-NARS antibody
Product Synonym Names	Asparaginyl-tRNA Synthetase; ASNRS; NARS1
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1D4
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified
Specificity	Recognizes NARS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	65.3kDa (571aa)
OMIM	108410
3D Structure	ModBase 3D Structure for O43776
Immunogen	NARS (NP_004530, 441aa-547aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	PVEIKSFYMQRCPEDSRLTESVDVLMPNVGEIVGGSMRIFDSEEILAGYKREGIDPTPYYWYTDQRKYGTCPHGGYGLGLERFLTWILNRYHIRDVCLYPF
Conjugate	PE
Product Categories/Family for anti-NARS antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-NARS antibody	ELISA (EIA)
Application Notes for anti-NARS antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NARS antibody	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Asparaginyl-tRNA synthetase is localized to th cytoplasm and belongs to the class II family of tRNA synthetases. The N-terminal domain represents the signature sequence for the eukaryotic asparag tRNA synthetases. [provided by RefSeq]

Other Notes	Small volumes of anti-NARS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and add dry ice fee may apply.
Searchable Terms for NARS purchase	MBS6183716 is an antibody targeting NARS. Also known as NARS (Asparaginyl-tRNA Synthetase, ASNRS, NARS1) (PE). Host: Mouse.



Testing Data of anti-NARS antibody
Detection limit for recombinant GST tagged NARS is approximately 3ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NARS. It may not necessarily be applicable to this product.

NCBI GI #	4758762
NCBI GeneID	4677
NCBI Accession #	NP_004530
UniProt Primary Accession #	O43776
UniProt Secondary Accession #	Q53GU6; B4DG16
UniProt Related Accession #	O43776
GenBank Nucleotide #	NM_004539.3
NCBI Official Full Name	asparagine--tRNA ligase, cytoplasmic
NCBI Official Synonym Full Names	asparaginyl-tRNA synthetase
NCBI Official Symbol	NARS
NCBI Official Synonym Symbols	ASNRS; NARS1
UniProt Protein Name	Asparagine--tRNA ligase, cytoplasmic
UniProt Synonym Protein Names	Asparaginyl-tRNA synthetase; AsnRS
Protein Family	Probable sensor histidine kinase
UniProt Gene Name	NARS
UniProt Synonym Gene Names	AsnRS
UniProt Entry Name	SYNC_HUMAN
NCBI Protein Information	asparagine--tRNA ligase, cytoplasmic

UniProt Comments for NARS	NARS: Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Asparaginyl-tRNA synthetase is localized to the cytoplasm and belongs to the class II family of tRNA synthetases. The N-terminal domain represents the signature sequence for the eukaryotic asparaginyl-tRNA synthetases. [provided by RefSeq, Jul 2008] Protein type: Translation; EC 6.1.1.22; Ligase Chromosomal Location of Human Ortholog: 18q21.31 Cellular Component: mitochondrion; cytoplasm; cytosol Molecular Function: nucleic acid binding; asparagine-tRNA ligase activity; ATP binding Biological Process: asparaginyl-tRNA aminoacylation; tRNA aminoacylation for protein translation; gene expression
Research Articles on NARS	**1.** Study shows that ERO1L and NARS expression level are up-regulated in primary lung adenocarcinoma and identifies them with a potential to promote tumor metastasis and growth of cancer cells.
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