ASNS Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ASNS, Monoclonal Antibody
Full Product Name	ASNS (Asparagine Synthetase [Glutamine-hydrolyzing], Cell Cycle Control Protein TS11, Glutamine-dependent Asparagine Synthetase, TS11) (MaxLight 750)
Product Gene Name	anti-ASNS antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3B3
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ASNS.
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	54,818 Da
Immunogen	Partial recombinant corresponding to aa281-380 from human ASNS (AAH14621) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	YPLQTFAIGMEDSPDLLAARKVADHIGSEHYEVLFNSEEGIQALDEVIFSLETYDITTVRASVGMYLISKYIRKNTDSVVIFSGEGSDELTQGYIYFHKA
Conjugate	MaxLight750
Product Categories/Family for anti-ASNS antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-ASNS antibody	FLISA
Application Notes for anti-ASNS antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ASNS antibody	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Asparaginyl-tRNA synthetase (NARS)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.

Other Notes	Small volumes of anti-ASNS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, 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 additional dry ice fee may apply.
Searchable Terms for ASNS purchase	MBS6231663 is an antibody targeting ASNS. Also known as ASNS (Asparagine Synthetase [Glutamine-hydrolyzing], Cell Cycle Control Protein TS11, Glutamine-dependent Asparagine Synthetase, TS11) (MaxLight 750). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	33870170
NCBI GeneID	440
NCBI Accession #	BC014621
NCBI Related Accession #	AAH14621
UniProt Secondary Accession #	P08184; Q15666; Q549T9; Q96HD0; A4D1I8; B4DXZ1; B7ZAA9; D6W5R3; E9PCI3; E9PCX6
UniProt Related Accession #	P08243
NCBI Official Full Name	Homo sapiens asparagine synthetase, mRNA
NCBI Official Synonym Full Names	asparagine synthetase (glutamine-hydrolyzing)
NCBI Official Symbol	ASNS
NCBI Official Synonym Symbols	TS11; ASNSD
Protein Family	Asparagine--tRNA ligase
NCBI Protein Information	asparagine synthetase [glutamine-hydrolyzing]
NCBI Summary for ASNS	The protein encoded by this gene is involved in the synthesis of asparagine. This gene complements a mutation in the temperature-sensitive hamster mutant ts11, which blocks progression through the G1 phase of the cell cycle at nonpermissive temperature. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, May 2010]
Research Articles on ASNS	**1.** Polymorphisms of ASNS are associated with an increased risk of asparaginase-related complications in children with acute lymphoblastic leukemia.
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