

ASNS Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant ASNS.****Catalog # AT1217a****Specification**

ASNS Antibody (monoclonal) (M01) - Product Information

Application	E
Primary Accession	P08243
Other Accession	BC014621
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	64370

ASNS Antibody (monoclonal) (M01) - Additional Information**Gene ID** 440**Other Names**Asparagine synthetase [glutamine-hydrolyzing], Cell cycle control protein TS11,
Glutamine-dependent asparagine synthetase, ASNS, TS11**Target/Specificity**

ASNS (AAH14621, 281 a.a. ~ 380 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

ASNS Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

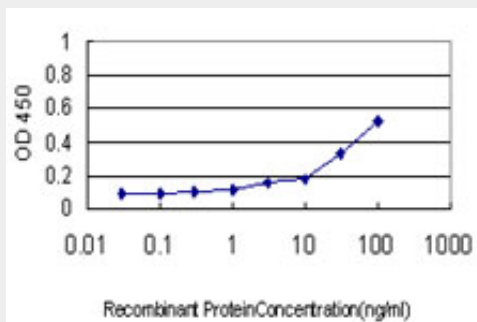
ASNS Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ASNS Antibody (monoclonal) (M01) - Images



Detection limit for recombinant GST tagged ASNS is approximately 0.3ng/ml as a capture antibody.

ASNS Antibody (monoclonal) (M01) - Background

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.

ASNS Antibody (monoclonal) (M01) - References

Declined asparagine synthetase mRNA expression and enhanced sensitivity to asparaginase in HL-60 cells committed to monocytic differentiation. Hashimoto K, et al. *Anticancer Res*, 2009 Apr. PMID 19414379. Functional analysis of a novel DNA polymorphism of a tandem repeated sequence in the asparagine synthetase gene in acute lymphoblastic leukemia cells. Akagi T, et al. *Leuk Res*, 2009 Jul. PMID 19054556. [Study of the correlation between the expression level of asparagine synthetase and the outcome of children with acute lymphocytic leukemia] Luo CY, et al. *Zhonghua Xue Ye Xue Za Zhi*, 2008 Jul. PMID 19035175. C/EBP homology protein (CHOP) interacts with activating transcription factor 4 (ATF4) and negatively regulates the stress-dependent induction of the asparagine synthetase gene. Su N, et al. *J Biol Chem*, 2008 Dec 12. PMID 18940792. Asparagine synthetase is a predictive biomarker of L-asparaginase activity in ovarian cancer cell lines. Lorenzi PL, et al. *Mol Cancer Ther*, 2008 Oct. PMID 18852115.