

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

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**ASNS Antibody (monoclonal) (M01) - Product Information**

Application	E
Primary Accession	<a href="#">P08243</a>
Other Accession	<a href="#">BC014621</a>
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.

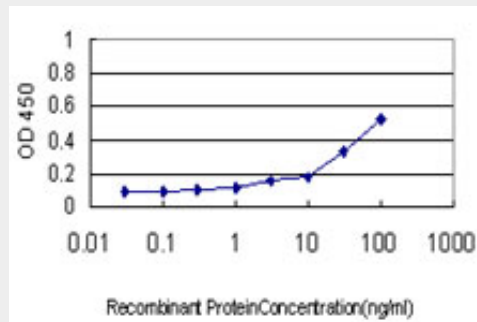
**ASNS Antibody (monoclonal) (M01) - Protocols**

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.