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ASNS Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ASNS.
Catalog # AT1217a

Product Information

Application	E
Primary Accession	P08243
Other Accession	BC014621
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3B3
Calculated MW	64370

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.

Background

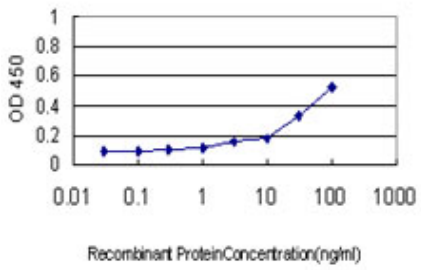
The protein encoded by this gene is involved in the synthesis of asparagine. This gene complements a mutation in the temperature-sensitive hamster mutant ts11, which blocks progression through the G1 phase of the cell cycle at nonpermissive temperature. Alternatively spliced transcript variants have been described for this gene.

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.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.