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BLMH Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant BLMH.
Catalog # AT1300a

Product Information

Application	WB, E
Primary Accession	Q13867
Other Accession	NM_000386
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4A2
Calculated MW	52562

Additional Information

Gene ID	642
Other Names	Bleomycin hydrolase, BH, BLM hydrolase, BMH, BLMH
Target/Specificity	BLMH (NP_000377, 356 a.a. ~ 454 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 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	BLMH Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

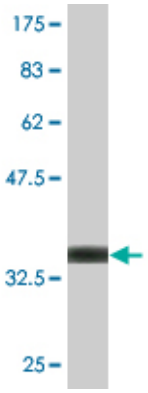
Bleomycin hydrolase (BMH) is a cytoplasmic cysteine peptidase that is highly conserved through evolution; however, the only known activity of the enzyme is metabolic inactivation of the glycopeptide bleomycin (BLM), an essential component of combination chemotherapy regimens for cancer. The protein contains the signature active site residues of the cysteine protease papain superfamily.

References

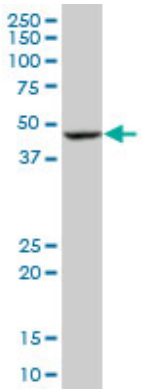
Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.Variation in bleomycin hydrolase gene is associated with reduced survival after chemotherapy for testicular germ cell cancer. de Haas EC, et al. J Clin Oncol, 2008 Apr 10. PMID 18398146.Micronuclei

frequency induced by bleomycin in human peripheral lymphocytes: correlating BLHX polymorphism with mutagen sensitivity. Maffei F, et al. Mutat Res, 2008 Mar 1. PMID 18082847.Meta-analysis of genetic variability in the beta-amyloid production, aggregation and degradation metabolic pathways and the risk of Alzheimer's disease. Llorca J, et al. Acta Neurol Scand, 2008 Jan. PMID 17854420.Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514.

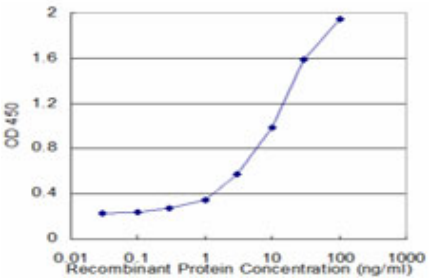
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



BLMH monoclonal antibody (M02), clone 4A2. Western Blot analysis of BLMH expression in K-562 ((Cat # AT1300a)



Detection limit for recombinant GST tagged BLMH 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'.