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ACYP1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ACYP1.
Catalog # AT1038a

Product Information

Application	WB, E
Primary Accession	P07311
Other Accession	BC035568
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b kappa
Clone Names	1B2-3A2
Calculated MW	11261

Additional Information

Gene ID	97
Other Names	Acylphosphatase-1, Acylphosphatase, erythrocyte isozyme, Acylphosphatase, organ-common type isozyme, Acylphosphate phosphohydrolase 1, ACYP1, ACYPE
Target/Specificity	ACYP1 (AAH35568, 1 a.a. ~ 99 a.a) full-length 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	ACYP1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

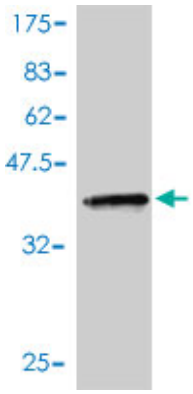
Background

Acylphosphatase is a small cytosolic enzyme that catalyzes the hydrolysis of the carboxyl-phosphate bond of acylphosphates. Two isoenzymes have been isolated, called muscle acylphosphatase and erythrocyte acylphosphatase, on the basis of their tissue localization. This gene encodes the erythrocyte acylphosphatase isoenzyme. Alternatively spliced transcript variants that encode different proteins were identified through data analysis.

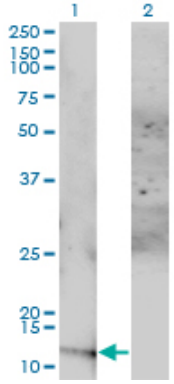
References

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.ACYP1 gene possesses two alternative splicing forms that induce apoptosis. Degl'Innocenti D, et al. IUBMB Life, 2004 Jan. PMID 14992377.The DNA sequence and analysis of human chromosome 14. Heilig R, et al. Nature, 2003 Feb 6. PMID 12508121.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.A nucleophilic catalysis step is involved in the hydrolysis of aryl phosphate monoesters by human CT acylphosphatase. Paoli P, et al. J Biol Chem, 2003 Jan 3. PMID 12409302.

Images

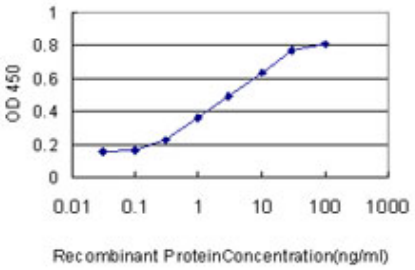


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



Western Blot analysis of ACYP1 expression in transfected 293T cell line by ACYP1 monoclonal antibody (M01), clone 1B2-3A2.

Lane 1: ACYP1 transfected lysate(11.3 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged ACYP1 is approximately 0.03ng/ml as a capture antibody.