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ACP2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ACP2.
Catalog # AT1028a

Product Information

Application	WB, IHC, IF, E
Primary Accession	P11117
Other Accession	BC003160
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b lambda
Clone Names	M1-4A12
Calculated MW	48344

Additional Information

Gene ID	53
Other Names	Lysosomal acid phosphatase, LAP, ACP2
Target/Specificity	ACP2 (AAH03160, 1 a.a. ~ 423 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 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	ACP2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

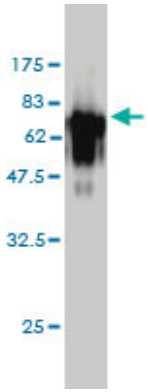
This gene encodes the beta subunit of lysosomal acid phosphatase (LAP). LAP is chemically and genetically distinct from red cell acid phosphatase. The encoded protein belongs to a family of distinct isoenzymes which hydrolyze orthophosphoric monoesters to alcohol and phosphate. Mutations in this gene or in the related alpha subunit gene cause acid phosphatase deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been identified for this gene.

References

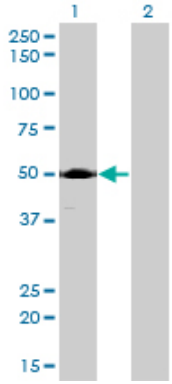
Polymorphisms in mitochondrial genes and prostate cancer risk. Wang L, et al. Cancer Epidemiol Biomarkers Prev, 2008 Dec. PMID 19064571.Identification of a novel risk locus for progressive supranuclear palsy by a

pooled genomewide scan of 500,288 single-nucleotide polymorphisms. Melquist S, et al. Am J Hum Genet, 2007 Apr. PMID 17357082.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.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.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.

Images

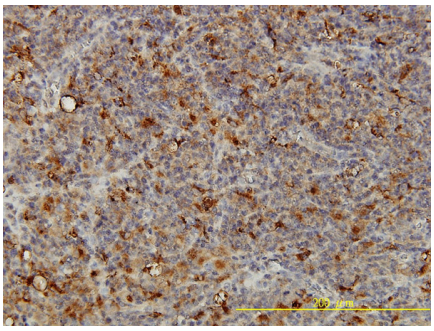


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (72.27 KDa) .

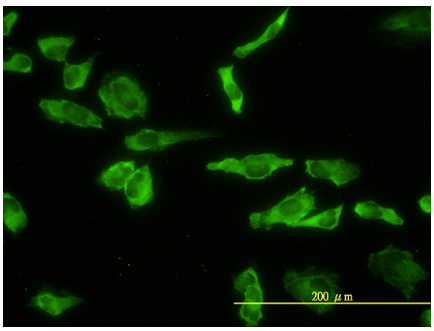


Western Blot analysis of ACP2 expression in transfected 293T cell line by ACP2 monoclonal antibody (M01), clone M1-4A12.

Lane 1: ACP2 transfected lysate(48.3 KDa).
Lane 2: Non-transfected lysate.

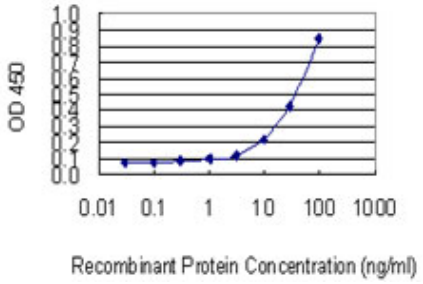


Immunoperoxidase of monoclonal antibody to ACP2 on formalin-fixed paraffin-embedded human lymphoma tissue. [antibody concentration 5 ug/ml]

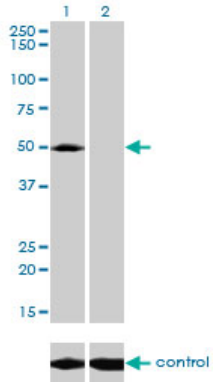


Immunofluorescence of monoclonal antibody to ACP2 on HeLa cell. [antibody concentration 10 ug/ml]

Detection limit for recombinant GST tagged ACP2 is 1



ng/ml as a capture antibody.



Western blot analysis of ACP2 over-expressed 293 cell line, cotransfected with ACP2 Validated Chimera RNAi ((Cat # AT1028a)

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