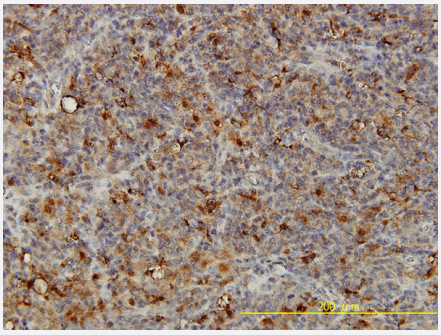
ACP2 monoclonal antibody (M01), clone M1-4A12

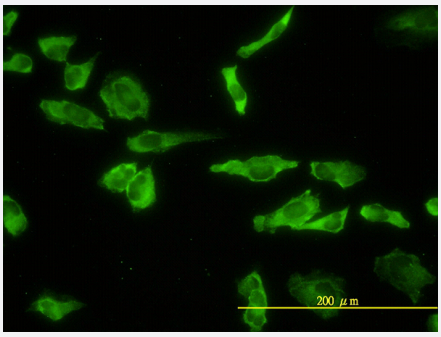
Catalog # H00000053-M01 Size 100 ug

Applications



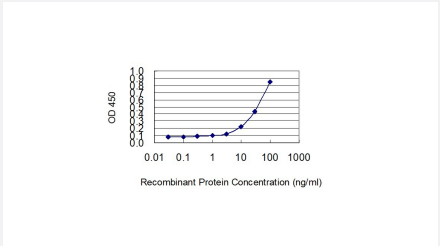
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



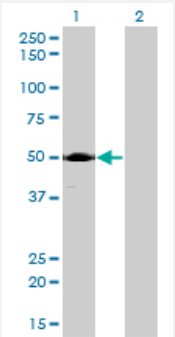
Immunofluorescence

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



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ACP2 is 1 ng/ml as a capture antibody.



Western Blot (Transfected lysate)

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.

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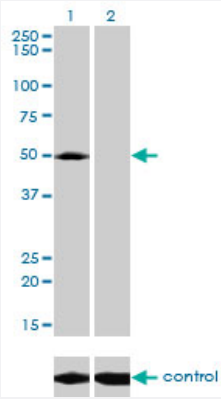
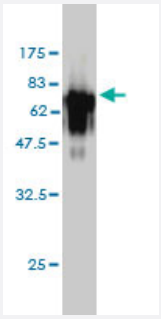


RNAi Knockdown (Antibody validated)

Western blot analysis of ACP2 over-expressed 293 cell line, cotransfected with ACP2 Validated Chimera RNAi (Cat # H00000053-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with ACP2 monoclonal antibody (M01), clone M1-4A12 (Cat # H00000053-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (72.27 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant ACP2.
Immunogen	ACP2 (AAH03160, 1 a.a. ~ 423 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAGKRSGWSRAALLQLLLGVNLVVMPPTQARSLRFVTLLYRHGDRSPVKTYPKDPYQEEEWPQ GFGQLTKEGMLQHWELGQALRQRYHGFLNTSYHRQEVYVRSTDFDRTLMSAEANLAGLFPPNG MQRFNPNISWQPIPVHTVPITEDRLLKFPLGPCPRYEQLQNETRQTPEYQNESSRNAQFLDMVAN ETGLTDLTLETVWNVYDTLFCEQTHGLRLPPWASPQTMQRLSRLKDFSFRFLFGIYQQAEKARLQ GGVLLAQIRKNLTLMATTSQLPKLLVYSAHDTTLVALQMALDVYNGEQAPYASCHIFELYQEDSGN FSVEMYFRNESDKAPWPLSLPGCPHRCPLQDFLRLTEPVVPKDWQQECQLASGPADTEVIVAL AVCGSILFLLIVLLLTVLFRMQAQPPGYRHVADGEDHA
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (90); Rat (90)
Isotype	IgG2b lambda
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (72.27 KDa) .

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Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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  Protocol Download

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

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  Protocol Download

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Gene Info — ACP2

Entrez GeneID	53
GeneBank Accession#	BC003160
Protein Accession#	AAH03160
Gene Name	ACP2
Gene Alias	-
Gene Description	acid phosphatase 2, lysosomal
Omim ID	171650
Gene Ontology	Hyperlink
Gene Summary	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 dis tinct isoenzymes which hydrolyze orthophosphoric monoesters to alcohol and phosphate. Mutatio ns in this gene or in the related alpha subunit gene cause acid phosphatase deficiency. Multiple al ternatively spliced transcript variants encoding different isoforms have been identified for this gen e. [provided by RefSeq
Other Designations	-

Pathway

- gamma-Hexachlorocyclohexane degradation
- Lysosome
- Riboflavin metabolism

Disease

- Genetic Predisposition to Disease
- Prostatic Neoplasms
- Supranuclear Palsy

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