10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ACP1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9411a

Specification

ACP1 Antibody (N-term) - Product Information

Application	**IF, FC, IHC-P, WB,E**
Primary Accession	P24666
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**18042**
Antigen Region	**33-61**

ACP1 Antibody (N-term) - Additional Information

Gene ID 52

Other Names
Low molecular weight phosphotyrosine protein phosphatase, LMW-PTP, LMW-PTPase, Adipocyte acid phosphatase, Low molecular weight cytosolic acid phosphatase, Red cell acid phosphatase 1, ACP1

Target/Specificity
This ACP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-61 amino acids from the N-terminal region of human ACP1.

Dilution
IF~~1:10~50
FC~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ACP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ACP1 Antibody (N-term) - Protein Information

Name ACP1 (HGNC:122)

Function Acts on tyrosine phosphorylated proteins, low-MW aryl phosphates and natural and synthetic acyl phosphates with differences in substrate specificity between isoform 1 and isoform 2.

Cellular Location
Cytoplasm.

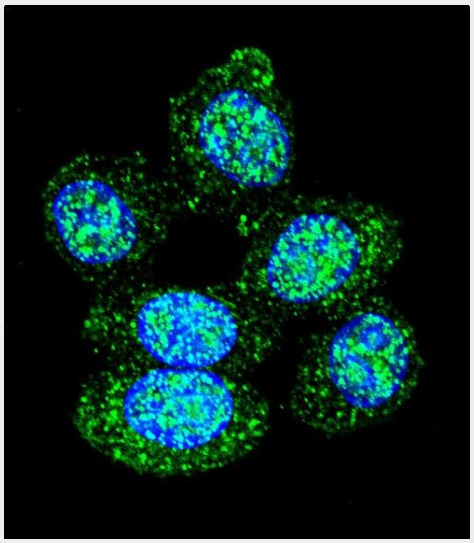
Tissue Location
[Isoform 2]: Expressed in T-lymphocytes.

ACP1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

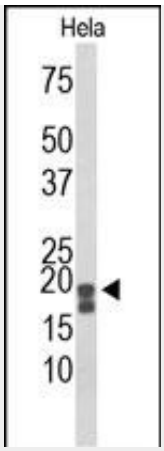
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ACP1 Antibody (N-term) - Images

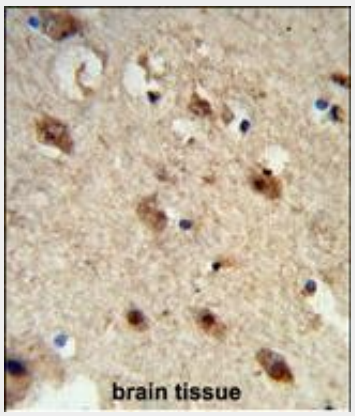


Confocal immunofluorescent analysis of ACP1 Antibody (N-term)(Cat#AP9411a) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

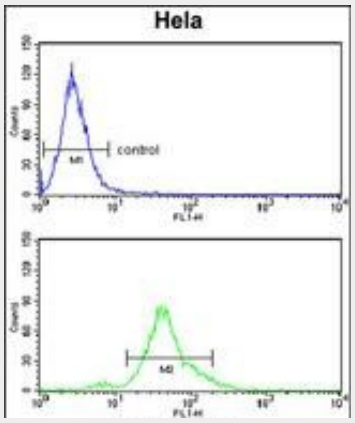
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western blot analysis of ACP1 Antibody (N-term) (Cat. #AP9411a) in Hela cell line lysates (35ug/lane). ACP1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with ACP1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



ACP1 Antibody (N-term) (Cat. #AP9411a) flow cytometry analysis of Hela cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ACP1 Antibody (N-term) - Background

ACP1 belongs to the phosphotyrosine protein phosphatase family of proteins. It functions as an acid phosphatase and a protein tyrosine phosphatase by hydrolyzing protein tyrosine phosphate to

protein tyrosine and orthophosphate. This enzyme also hydrolyzes orthophosphoric monoesters to alcohol and orthophosphate. This gene is genetically polymorphic, and three common alleles segregating at the corresponding locus give rise to six phenotypes. Each allele appears to encode at least two electrophoretically different isozymes, Bf and Bs, which are produced in allele-specific ratios.

ACP1 Antibody (N-term) - References

Saccucci, P., et al. Med. Sci. Monit. 15 (10), CR511-CR517 (2009) : Shu, Y.H., et al. J. Clin. Endocrinol. Metab. 94(10):4094-4102(2009) Apelt, N., et al. Metab. Clin. Exp. 58(10):1415-1423(2009) Banci, M., et al. Cardiology 113(4):236-242(2009) Rousseff, R.T., et al. Neuropediatrics 39(6):354-356(2008)