

HEXA Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6942a

Specification

HEXA Antibody (N-term) - Product Information

Application	IHC-P-Leica, FC, WB,E
Primary Accession	P06865
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	142-170

HEXA Antibody (N-term) - Additional Information

Gene ID 3073

Other Names

Beta-hexosaminidase subunit alpha, Beta-N-acetylhexosaminidase subunit alpha, Hexosaminidase subunit A, N-acetyl-beta-glucosaminidase subunit alpha, HEXA

Target/Specificity

This HEXA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 142-170 amino acids from the N-terminal region of human HEXA.

Dilution

IHC-P-Leica~~1:500

FC~~1:10~50

WB~~1:2000

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

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

HEXA Antibody (N-term) - Protein Information

Name HEXA ([HGNC:4878](#))

Function Hydrolyzes the non-reducing end N-acetyl-D-hexosamine and/or sulfated N-acetyl-D-hexosamine of glycoconjugates, such as the oligosaccharide moieties from proteins and neutral glycolipids, or from certain mucopolysaccharides (PubMed:[11707436](#), PubMed:[8123671](#), PubMed:[8672428](#), PubMed:[9694901](#)). The isozyme S is as active as the isozyme A on the anionic bis-sulfated glycans, the chondroitin-6- sulfate trisaccharide (C6S-3), and the dermatan sulfate pentasaccharide, and the sulfated glycosphingolipid SM2 (PubMed:[11707436](#)). The isozyme B does not hydrolyze each of these substrates, however hydrolyzes efficiently neutral oligosaccharide (PubMed:[11707436](#)). Only the isozyme A is responsible for the degradation of GM2 gangliosides in the presence of GM2A (PubMed:[8123671](#), PubMed:[8672428](#), PubMed:[9694901](#)).

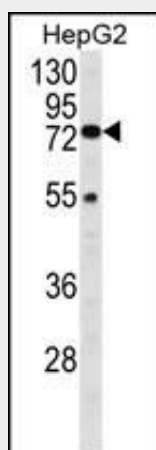
Cellular Location

Lysosome.

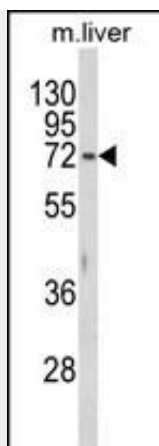
HEXA Antibody (N-term) - Protocols

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

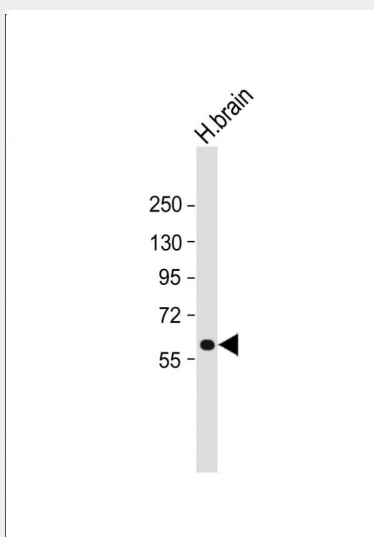
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HEXA Antibody (N-term) - Images

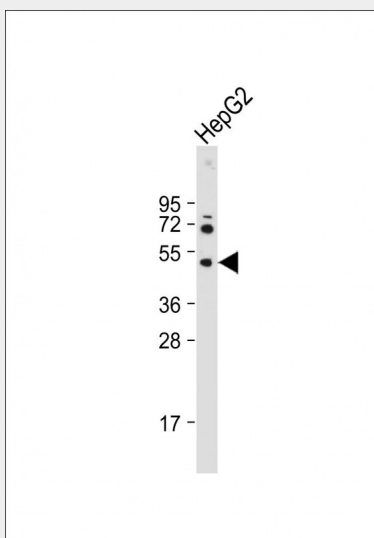
Western blot analysis of HEXA Antibody (N-term) (Cat. #AP6942a) in HepG2 cell line lysates (35ug/lane). HEXA (arrow) was detected using the purified Pab.



Western blot analysis of HEXA Antibody (N-term) (Cat. #AP6942a) in mouse liver tissue lysates (35ug/lane). HEXA (arrow) was detected using the purified Pab.

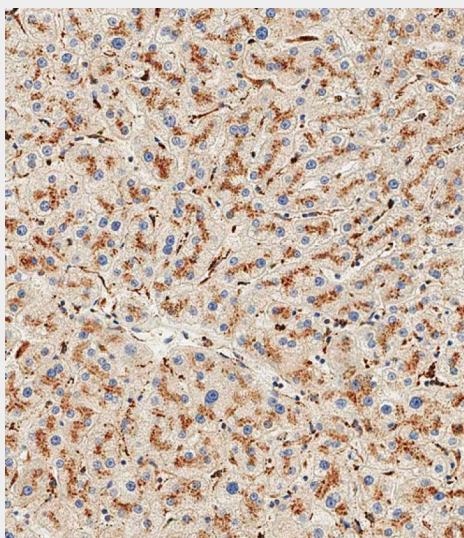


Anti-HEXA Antibody (N-term) at 1:1000 dilution + Human brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 61 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

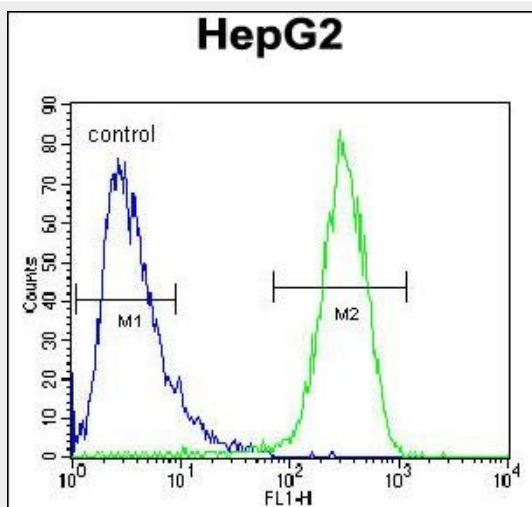


Anti-HEXA Antibody (N-term) at 1:2000 dilution + HepG2 whole cell lysate Lysates/proteins at 20

µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 61 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded Human liver tissue using AP6942a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



HEXA Antibody (N-term) (Cat. #AP6942a) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

HEXA Antibody (N-term) - Background

HEXA is the alpha subunit of the lysosomal enzyme beta-hexosaminidase that, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Beta-hexosaminidase is composed of two subunits, alpha and beta, which are encoded by separate genes. Both beta-hexosaminidase alpha and beta subunits are members of family 20 of glycosyl hydrolases.

HEXA Antibody (N-term) - References

Park,N.J., et.al., Pediatr. Res. (2009)

Pennybacker,M., et.al., J. Biol. Chem. 271 (29), 17377-17382 (1996)