

HEXB Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50645**Specification**

HEXB Antibody - Product Information

Application	WB, IHC
Primary Accession	P07686
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63 KDa
Antigen Region	505-531

HEXB Antibody - Additional Information**Gene ID** 3074**Other Names**

Beta-hexosaminidase subunit beta, Beta-N-acetylhexosaminidase subunit beta, Hexosaminidase subunit B, Cervical cancer proto-oncogene 7 protein, HCC-7, N-acetyl-beta-glucosaminidase subunit beta, Beta-hexosaminidase subunit beta chain B, Beta-hexosaminidase subunit beta chain A, HEXB

Dilution

WB~~1:1000
IHC~~1:50-1:100

Format

Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions

-20°C

HEXB Antibody - Protein Information**Name** HEXB ([HGNC:4879](#))**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 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). During fertilization is responsible, at least in part, for the zona block to polyspermy. Present in the cortical granules of non-activated oocytes, is exocytosed during the cortical reaction in response to oocyte activation and inactivates the sperm galactosyltransferase-binding site, accounting for the block in sperm binding to the zona pellucida (By similarity).

Cellular Location

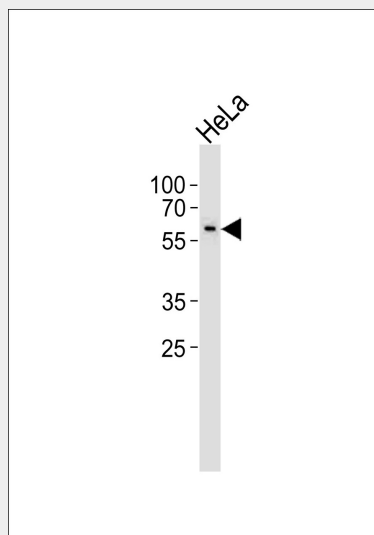
Lysosome. Cytoplasmic vesicle, secretory vesicle, Cortical granule
{ECO:0000250|UniProtKB:P20060}

HEXB Antibody - Protocols

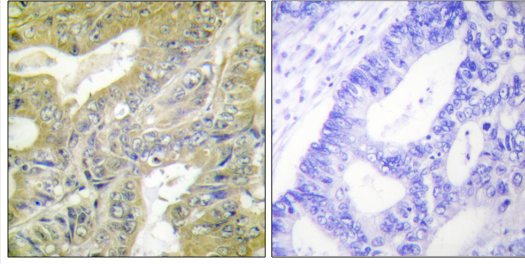
Provided below are standard protocols that you may find useful for product applications.

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

HEXB Antibody - Images



Western blot analysis of lysate from HeLa cell line, using HEXB Antibody (AP50645). AP50645 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue using HEXB antibody.

HEXB Antibody - Background

Responsible for the degradation of GM2 gangliosides, and a variety of other molecules containing terminal N-acetyl hexosamines, in the brain and other tissues.

HEXB Antibody - References

- Korneluk R.G.,et al.J. Biol. Chem. 261:8407-8413(1986).
Neote K.,et al.Genomics 3:279-286(1988).
Proia R.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:1883-1887(1988).
Kim J.W.,et al.Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.