

**HEXB Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21947c****Specification**

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**HEXB Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P07686</a>
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	63137

**HEXB Antibody (Center) - Additional Information****Gene ID** 3074**Other Names**

Beta-hexosaminidase subunit beta, 3.2.1.52, 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

**Target/Specificity**

This HEXB antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 170-203 amino acids from the Central region of human HEXB.

**Dilution**

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**

HEXB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**HEXB Antibody (Center) - 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

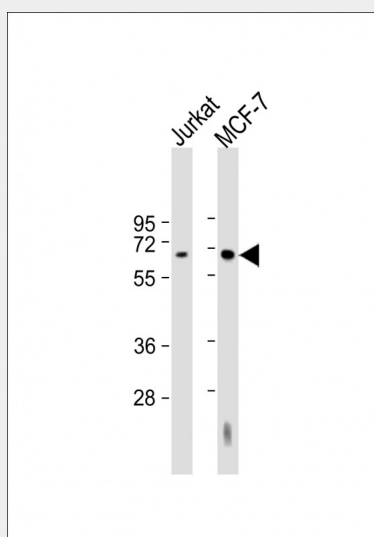
Lysosome. Cytoplasmic vesicle, secretory vesicle, Cortical granule  
{ECO:0000250|UniProtKB:P20060}

### HEXB Antibody (Center) - 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 (Center) - Images



All lanes : Anti-HEXB Antibody (Center) at 1:2000 dilution Lane 1: Jurkat whole cell lysate Lane 2: MCF-7 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 : 63 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

### HEXB Antibody (Center) - 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 (Center) - 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.