




Product datasheet

Anti-HEXA antibody ab236953

2 Images

Overview

Product name	Anti-HEXA antibody
Description	Rabbit polyclonal to HEXA
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Orangutan 
Immunogen	Recombinant full length protein corresponding to Human HEXA aa 50 to the C-terminus. Database link: P06865-1  Run BLAST with  Run BLAST with
Positive control	IHC-P: Human endometrial cancer tissue. ICC/IF: PC-3 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.03% Proclin 300 Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein G purified
Purification notes	Purity >95%
Clonality	Polyclonal
Isotype	IgG

Applications

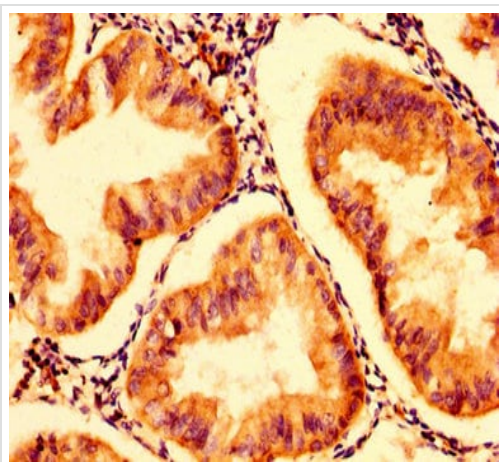
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab236953 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/200 - 1/500.
ICC/IF		1/50 - 1/200.

Target

Function	Responsible for the degradation of GM2 gangliosides, and a variety of other molecules containing terminal N-acetyl hexosamines, in the brain and other tissues. The form B is active against certain oligosaccharides. The form S has no measurable activity.
Involvement in disease	Defects in HEXA are the cause of GM2-gangliosidosis type 1 (GM2G1) [MIM:272800]; also known as Tay-Sachs disease. GM2-gangliosidosis is an autosomal recessive lysosomal storage disease marked by the accumulation of GM2 gangliosides in the neuronal cells. GM2G1 is characterized by GM2 gangliosides accumulation in the absence of HEXA activity, leading to neurodegeneration and, in the infantile form, death in early childhood. GM2G1 has an increased incidence among Ashkenazi Jews and French Canadians in eastern Quebec. It exists in several forms: infantile (most common and most severe), juvenile and adult (late onset).
Sequence similarities	Belongs to the glycosyl hydrolase 20 family.
Post-translational modifications	N-linked glycan at Asn-115 consists of Man(3)-GlcNAc(2).
Cellular localization	Lysosome.

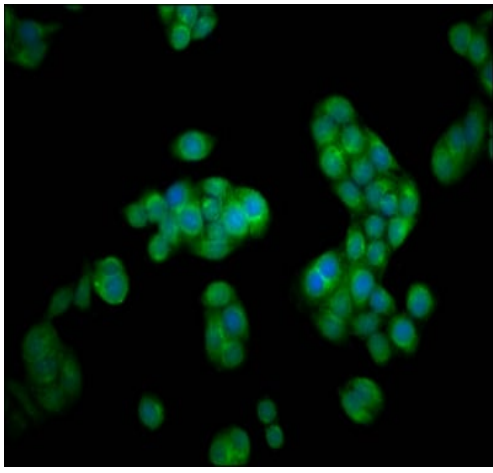
Images



Paraffin-embedded human endometrial cancer tissue stained for HEXA using ab236953 at 1/300 dilution in immunohistochemical analysis.

After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum for 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using a HRP conjugated SP system.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HEXA antibody (ab236953)



Immunocytochemistry/ Immunofluorescence - Anti-HEXA antibody (ab236953)

PC-3 (Human prostate adenocarcinoma cell line) cells stained for HEXA (green) using ab236953 at 1/100 dilution in ICC/IF, followed by an Alexa-Fluor[®]488-conjugated goat anti-rabbit IgG (H+L). Counterstained with DAPI (blue).

The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal goat serum. The cells were then incubated with primary antibody overnight at 4°C.

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