

Datasheet for ABIN5518688
anti-Hexosaminidase A antibody (C-Term)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	Hexosaminidase A (HEXA)
Binding Specificity:	AA 513-529, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Hexosaminidase A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-HEXA Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human HEXA, different from the related mouse sequence by three amino acids, and from the related rat sequences by four amino acids.
Sequence:	QAQPLNVGFC EQEFEQT
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-HEXA Antibody (ABIN5518688). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched

Product Details

	performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Hexosaminidase A (HEXA)
Alternative Name:	HEXA (HEXA Products)
Background:	Synonyms: Beta-hexosaminidase subunit alpha,3.2.1.52,Beta-N-acetylhexosaminidase subunit alpha,Hexosaminidase subunit A,N-acetyl-beta-glucosaminidase subunit alpha,HEXA, Tissue Specificity: Expressed in various epithelial tissues. Abundantly expressed in liver and kidney, and to a lesser extent in lung. The tissue distribution of isoforms 1 and 1B is distinct. . Background: HEXA (hexosaminidase A (alpha polypeptide)) is an enzyme that in humans is encoded by the HEXA gene. Hexosaminidase A and the cofactor GM2 activator protein catalyze the degradation of the GM2 gangliosides and other molecules containing terminal N-acetyl hexosamines The HEXA gene encodes the alpha subunit of hexosaminidase A, a lysosomal enzyme involved in the breakdown of gangliosides. The HEXA gene is mapped on 15q23. Even though the alpha and beta subunits of hexosaminidase A can both cleave GalNAc residues, only the alpha subunit is able to hydrolyze GM2 gangliosides. The alpha subunit contains a key residue, Arg-424, which is essential for binding the N-acetyl-neuramanic residue of GM2 gangliosides. Chimeric constructs were expressed in HeLa cells and selected constructs were produced in the baculovirus expression system to determine their ability to degrade GM2 ganglioside in the presence of GM2 activator protein. Their results allowed them to define 2 noncontiguous sequences in the alpha subunit (amino acids 1-191 and 403-529) which, when substituted into analogous positions in the beta subunit, conferred activity against the sulfated substrate. Sequence Similarities: Belongs to the glycosyl hydrolase 20 family.
Molecular Weight:	57 kDa
UniProt:	P06865
Pathways:	Sensory Perception of Sound , Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human
	1. Akli, S., Chomel, J.-C., Lacorte, J.-M., Bachner, L., Poenaru, A., Poenaru, L. Ten novel mutations in the HEXA gene in non-Jewish Tay-Sachs patients. Hum. Molec. Genet. 2: 61-67, 1993. 2.

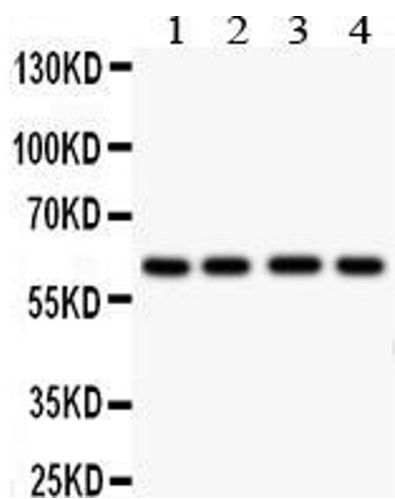
Application Details

	Beutler, E., Kuhl, W., Comings, D. Hexosaminidase isozyme in type O Gm2 gangliosidosis (Sandhoff-Jatzkewitz disease). Am. J. Hum. Genet. 27: 628-638, 1975. 3. Chern, C. J., Beutler, E., Kuhl, W., Gilbert, F., Mellman, W. J., Croce, C. M. Characterization of heteropolymeric hexosaminidase A in human x mouse hybrid cells. Proc. Nat. Acad. Sci. 73: 3637-3640, 1976.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Sodium azide, Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Anti- HEXA antibody, Western blottingAll lanes: Anti HEXA at 0.5ug/ml Lane 1: Human Placenta Tissue Lysate at 50ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: HEPG2 Whole Cell Lysate at 40ug Lane 4: U87 Whole Cell Lysate at 40ugPredicted bind size: 61KDObserved bind size: 61KD