

Datasheet for ABIN7601083

anti-Hexosaminidase A antibody (AA 28-528)



Overview

Quantity:	100 μg
Target:	Hexosaminidase A (HEXA)
Binding Specificity:	AA 28-528
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Hexosaminidase A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-HEXA Antibody Picoband®
Immunogen:	E.coli-derived rat HEXA recombinant protein (Position: Q28-T528).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-HEXA Antibody Picoband® (ABIN7601083). Tested in ELISA, WB applications. This antibody reacts with Rat. 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 performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Hexosaminidase A (HEXA)
Alternative Name:	Hexa (HEXA Products)
Background:	Synonyms: Early growth response protein 1
	Tissue Specificity: Detected in neutrophils (at protein level).
	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.
Molecular Weight:	54 kDa
Gene ID:	300757
UniProt:	Q641X3
Pathways:	Sensory Perception of Sound, Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only
	hexosaminidase A in human x mouse hybrid cells. Proc. Nat. Acad. Sci. 73: 3637-3640, 1976.
	E., Kuhl, W., Gilbert, F., Mellman, W. J., Croce, C. M. Characterization of heteropolymeric
	(Sandhoff-Jatzkewitz disease). Am. J. Hum. Genet. 27: 628-638, 1975. 3. Chern, C. J., Beutler,
	Beutler, E., Kuhl, W., Comings, D. Hexosaminidase isozyme in type O Gm2 gangliosidosis
	in the HEXA gene in non-Jewish Tay-Sachs patients. Hum. Molec. Genet. 2: 61-67, 1993. 2.
	1. Akli, S., Chomel, JC., Lacorte, JM., Bachner, L., Poenaru, A., Poenaru, L. Ten novel mutations
	ELISA, 0.1-0.5 μg/mL,
Application Notes:	Western blot, 0.25-0.5 μg/mL, Rat

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 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE 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.