Datasheet for ABIN2788673

anti-Hexosaminidase A antibody (C-Term)

2 Images

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Overview

Quantity:	100 µL
Target:	Hexosaminidase A (HEXA)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Guinea Pig, Pig, Cow, Horse, Rabbit, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Hexosaminidase A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human HEXA
Sequence:	WKDFYIVEPL AFEGTPEQKA LVIGGEACMW GEYVDNTNLV PRLWPRAGAV
Predicted Reactivity:	Cow: 93%, Dog: 85%, Guinea Pig: 86%, Horse: 93%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 93%, Rat: 93%, Sheep: 93%
Characteristics:	This is a rabbit polyclonal antibody against HEXA. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	Hexosaminidase A (HEXA)
Alternative Name:	HEXA (HEXA Products)

Target Details

Background:	This gene encodes the alpha subunit of the lysosomal enzyme beta-hexosaminidase that, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Beta-hexosaminidase is composed of two subunits, alpha and beta, which are encoded by separate genes. Both beta-hexosaminidase alpha and beta subunits are members of family 20 of glycosyl hydrolases. Mutations in the alpha or beta subunit genes lead to an accumulation of GM2 ganglioside in neurons and neurodegenerative disorders termed the GM2 gangliosidoses. Alpha subunit gene mutations lead to Tay-Sachs disease (GM2-gangliosidosis type I). Alias Symbols: MGC99608, TSD Protein Interaction Partner: H2AFV, WDR61, UBA6, UBR7, C9orf78, HERC4, FKBP9, PDCD10, NUBP2, GTF3C4, HIST1H2BO, XPNPEP1, EZR, RAD23A, PCNA, KTN1, HK1, GDI1, CAPZB, AHCY, ACAT2, FBXO6, H2AFX, GM2A, USP22, Protein Size: 529
Molecular Weight:	48 kDa
Gene ID:	3073
NCBI Accession:	NM_000520, NP_000511
UniProt:	P06865
Pathways:	Sensory Perception of Sound, Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 529 AA
Restrictions:	For Research Use only

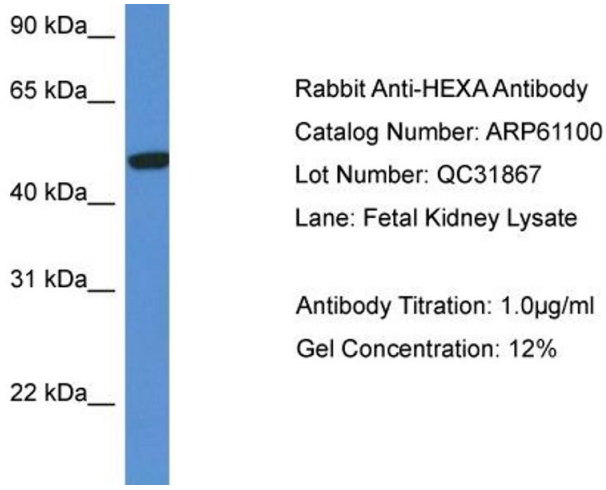
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

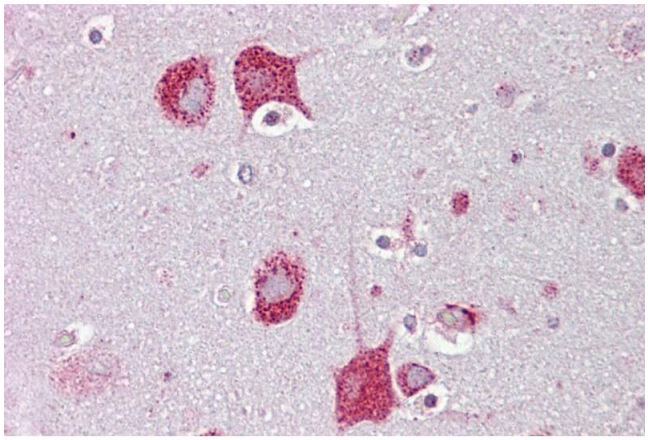
	should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1.



Immunohistochemistry

Image 2. Immunohistochemistry with Brain, cortex tissue at an antibody concentration of 5µg/ml using anti-HEXA antibody (ARP61100_P050)