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# **Human Hexosaminidase A/HEXA antibody**

Catalog Number: ATGA0259

### **PRODUCT INFORMATION**

# Catalog number

ATGA0259

#### Clone No.

AT20F1

#### **Product type**

Monoclonal Antibody

#### UnitProt No.

P06865

#### **NCBI Accession No.**

NP 000511.1

#### **Alternative Names**

beta-hexosaminidase subunit alpha, TSD, hexosaminidase A

#### **PRODUCT SPECIFICATION**

#### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human HEXA (89-529aa) purified from E. coli

#### Isotype

IgG2a Lambda

### **Purification Note**

By protein-A affinity chromatography

## **Application**

ELISA, WB, FACS

#### Usage

The antibody has been tested by ELISA, Western blot and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

#### **Storage**



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

#### **Description**

HEXA (Hexosaminidase A), also designated beta-Hexosaminidase A, is responsible for the degradation of GM2 gangliosides, and a variety of other molecules containing terminal N-acetyl hexosamines, in the brain and other tissues. A mutation in the a subunit of hexosaminidase is the cause of Tay-Sachs disease (TSD), also known as GM2-gangliosidosis type I. TSD is a fatal autosomal recessive lysosomal storage disease of the central nervous system (CNS) caused by insufficient activity of the HEXA enzyme that results in a failure to process GM2 gangliosides. The accumulation of GM2 ganglioside in the absence of HEXA activity causes progressive destruction of the CNS.

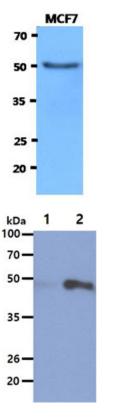
#### **General References**

Cabezas. J.A. (1989) Biochem J 261(3): 1059-1060. Lemieux. M.J., et al. (2006) J Mol Biol 359(4): 913-929.

Boles. D.J. and Proia. R.L. (1995) Am J Hum Genet 56(3): 716-724.

# **DATA**

# Western blot analysis (WB)



The cell lysate of MCF7 (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human HEXA antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human HEXA antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

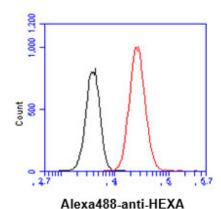
Lane 2.: HEXA Transfected 293T cell lysate

Flow cytometry (FACS)

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Flow cytometry analysis of HEXA in A549 cell line, staining at 2-5ug for  $1\times10^6$  (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

