## NKMAXBio We support you, we believe in your research

## **Human GAPDH antibody**

Catalog Number: ATGA0181

## **PRODUCT INFORMATION**

## Catalog number

ATGA0181

#### Clone No.

AT8G4

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P04406

## **NCBI Accession No.**

NP 002037

#### **Alternative Names**

Glyceraldehyde-3-phosphate dehydrogenase isoform 1, Peptidyl-cysteine S-nitrosylase GAPDH, GAPD, G3PD

## **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 GAPDH (1-335aa) purified from E.coli

## Isotype

IgG2b kappa

## **Purification Note**

By protein-G affinity chromatography

## **Application**

ELISA, WB, ICC/IF

## Usage

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

## **Storage**



# NKMAXBIO We support you, we believe in your research

# **Human GAPDH antibody**

Catalog Number: ATGA0181

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**

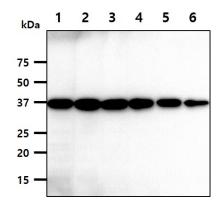
Multiple roles for glyceraldehyde-3-phosphate dehydrogenase (GAPDH) have been recently appreciated. GAPDH is found in the particulate fractions, such as the nucleus, the mitochondria, and the small vesicular fractions. GAPDH gene expression is specifically increased during programmed neuronal cell death. When cells are exposed to various stressors, dynamic subcellular re-distribution of GAPDH occurs. GAPDH is also involved in various diseases, especially neurodegenerative disorders and cancers. As a membrane protein, GAPDH functions in endocytosis; in the cytoplasm, it is involved in the translational control of gene expression; in the nucleus, it functions in nuclear tRNA export, in DNA replication, and in DNA repair.

## **General References**

Chuang DM, et al. (2005) Annu Rev Pharmacol Toxicol, 45:269-90. Mazzola JL, et al. (2002) Neurotoxicology, 23(4-5):603-9. Sirover MA. (1997) J Cell Biochem, 66(2):133-40.

## **DATA**

## Western blot analysis (WB)



The HeLa cell lysates (35ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GAPDH antibody. Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Anti-human GAPDH antibody(1:1000)

Lane 2.: Anti-human GAPDH antibody(1:2000)

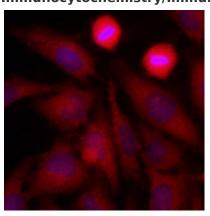
Lane 3.: Anti-human GAPDH antibody(1:4000)

Lane 4.: Anti-human GAPDH antibody(1:6000)

Lane 5.: Anti-human GAPDH antibody(1:8000)

Lane 6.: Anti-human GAPDH antibody(1:10000)

## Immunocytochemistry/Immunofluorescence (ICC/IF)



Immunofluorescence of human HeLa cells stained with Hoechst 3342(Blue) for nucleus staining and monoclonal anti-human GAPDH antibody (1:500) with Texas Red

