**BACKGROUND**

Glyceraldehyde-3-phosphate dehydrogenase (GAPDH), also called uracil DNA glycosylase, catalyzes the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD), an important energy-yielding step in carbohydrate metabolism. While GAPDH has long been recognized as playing an integral role in glycolysis, additional functions of GAPDH include acting as a uracil DNA glycosylase, activating transcription, binding RNA and involvement in nuclear RNA export, DNA replication and DNA repair. Expression of GAPDH is upregulated in liver, lung and prostate cancers. GAPDH translocates to the nucleus during apoptosis. GAPDH complexes with neuronal proteins implicated in human neuro-degenerative disorders including the β-Amyloid precursor, Huntingtin and other triplet repeat neuronal disorder proteins.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: GAPDHS (human) mapping to 19q13.12.

**SOURCE**

GAPDH-2 (Hs-8) is a mouse monoclonal antibody raised against purified spermatozoa of human origin.

**PRODUCT**

Each vial contains 100 µg IgM in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

GAPDH-2 (Hs-8) is recommended for detection of GAPDH-2 of human and porcine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for GAPDH-2 siRNA (h): sc-40626, GAPDH-2 shRNA Plasmid (h): sc-40626-SH and GAPDH-2 shRNA (h) Lentiviral Particles: sc-40626-V.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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**PRODUCT**

GAPDH-2 (Hs-8): sc-51631

**SOURCE**

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