



Rabbit anti GAPDH Polyclonal antibody

Alternative Name(s): glyceraldehyde-3-phosphate dehydrogenase; G3PD; GAPD

Order Information

- **Description:** GAPDH
- **Catalogue:** 630-790
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt,

ANTIGEN PREPARATION

A synthetic peptide corresponding to c-terminus of GAPDH protein. It is identical among human, mice rat and other species.

BACKGROUND

The glyceraldehyde-3-phosphate dehydrogenase protein (GAPDH) is a ubiquitous glycolytic enzyme present in reasonably high levels in almost all tissues. As a “house-keeping” enzyme, it catalyzes the synthesis of 1,3-biphosphoglycerate, a “high energy” intermediate used for the synthesis of ATP. It catalyzes an important energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD). It has been identified to have uracil DNA glycosylase activity in the nucleus. It has a variety of additional functions including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferrin receptor on the cell surface of macrophage. It is also involved in the initial stages of apoptosis or oxidative stress response where GAPDH is translocated to the nucleus. GAPDH has also been found to bind specifically to proteins implicated in pathogenesis of a variety of neurodegenerative disorders including the beta-amyloid precursor protein and huntingtin. GAPDH has also been identified as a potential target for nitric oxide (NO)-mediated cellular toxicity.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human GAPDH protein. It cross reacts to human, mice and rat.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 38.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

FOR RESEARCH USE ONLY.

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). www.abbomax.com info@abbomax.com



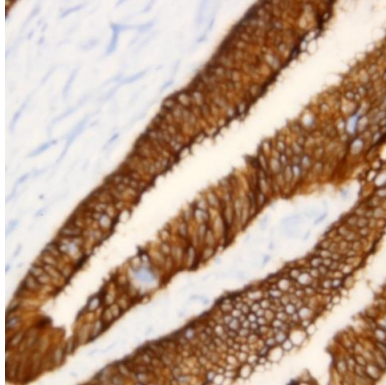
*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). www.abbomax.com info@abbomax.com



DATA ATTACHMENTS



Immunohistochemistry: Human colon carcinoma (FFPE) stained with Rabbit anti-GAPDH antibody (Cat# 630-790) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

FOR RESEARCH USE ONLY.

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). www.abbomax.com info@abbomax.com