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Innovative Therapeutic Antibody

Anti-GAPDH (5H11) antibody

| Cat. No. | AbC-1001 |
|--------------------|--|
| | |
| Size | 200ul |
| Host Species | Mouse |
| Cross reactivity | Human, Rat |
| Tested application | ELISA, Western blot, IP (Other application is not tested) |
| Immunogen | Synthetic peptide. VGVDSVEGEGEEGEE (435-450aa) of human GAPDH. |
| Form | Liquid |
| Storage | Store at -20°C. |
| Purification | Immunoaffinity chromatography purified. |
| Concentration | 1mg/ml |
| Storage buffer | 0.02% sodium azide, 50% glycerol in PBS |
| Clonity | Monoclonal |
| Isotype | IgG1, к |
| Positive control | HeLa cell |

Background

Glyceraldehyde 3-Phosphate Dehydrogenase (GAPDH) is a metabolic enzyme responsible for catalyzing one step in the glycolytic pathway, the reversible oxidative phosphorylation of glyceraldehyde 3-phosphate. GAPDH is a ubiquitously expressed and has a molecular mass of 37 kD. 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). The enzyme exists as a tetramer of identical chains. Besides its functioning as a glycolytic enzyme in cytoplasm, recent evidence suggest that mammalian GAPDH is also involved in a great number of intracellular proceses such as membrane fusion,

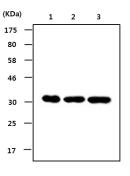
microtubule bundling, phosphotransferase activity, nuclear RNA export, DNA replication, and DNA repair. The protein may also have a role in the regulation of apoptosis, and interestingly migrates from the cytoplasm into the nucleus when cells become apoptotic.

Recommended Dilution

| ЕЦІ́SA | 1/10000 - 1/20000 |
|--------------|-------------------|
| Western blot | 1/10000 |
| IP | 2ug |

Optimal working dilutions must be determined by end user.





Western blot analysis of cell lysate : Lane 1: HeLa cell lysate Lane 2: HEK 293 cell lysate Lane 3: L6 cell lysate

Reference

- 1) Fortun J, Dunn WA, Joy S, Li J, Notterpek L. *J. Neurosci.* 23:10672-10680, 2003.
- 2) Morgenegg G, Winkler GC, Hubscher U, Heizmann CW, Mous J, Kuenzle CC. J. Neurochem. 47:54-62, 1986.

Note : For research use only. Not for use in diagnostic procedures.