Catalog No. LF-PA0018

POLYCLONAL ANTIBODY

Anti-Glyceraldehyde 3-phosphate dehydrogenase

Background : Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) is a catalytic enzyme commonly known to be involved in glycolysis. The enzyme exists as a tetramer of identical 37-kDa subunits. GAPDH catalyzes the reversible reduction of 1,3-bisphosphoglycerate to glyceraldehyde 3-phosphophate in the presence of NADPH. Apart from playing a key role in glycolysis, this ubiquitously expressed enzyme also displays other activities unrelated to its glycolytic function. GAPDH is reported to be involved in the processes of DNA replication (1), DNA repair (2), nuclear RNA export (3-4), membrane fusion (5) and microtubule bundling. Other studies also provide evidence of GAPDH playing an essential part of the program of gene expression observed in apoptosis and as part of the cellular phenotype of age-related neurodegenerative diseases (6-7).

Immunogen : Recombinant human protein purified from *E.coli*

Host : Rabbit

Size : 100 µℓ

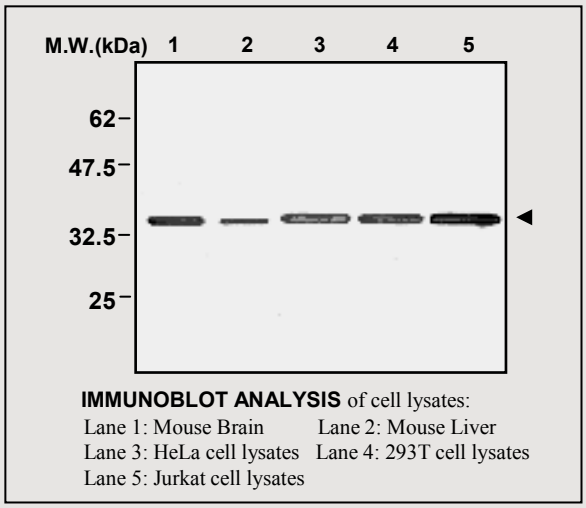
Composition : PBS coataning 50% glycerol

Positive control : HeLa cell lysates

Storage : Store for 1 year at -20°C from date of shipment

Species cross reactivity

Human	Mouse	Rat
+	+	+



IMMUNOBLOT ANALYSIS of cell lysates:
Lane 1: Mouse Brain Lane 2: Mouse Liver
Lane 3: HeLa cell lysates Lane 4: 293T cell lysates
Lane 5: Jurkat cell lysates

Application :
Western blotting (1:10000)
Immunoprecipitation (1 µℓ /400 µℓ lysates)

Background Reference :

1) Baxi, M. D. and Vishwanatha, J. K. (1995) Biochemistry. 34, 9700-9707.
2) McNulty, S. E. and Toscano, W. A. Jr. (1995) Biochem. Biophys. Res. Commun. 34, 165-171.
3) Singh, R. and Green, M. R. (1993) Science. 259, 365-368.
4) Zang, W. Q. et al. (1998) Virology. 28, 46-52.
5) Han, X. et al. (1998) Biochem. Biophys. Acta. 1414,95-107.
6) Kragten, E. et al. (1998) J. Biol. Chem. 273, 5821 -5828.
7) Koshy, B. (1996) Hum. Mol. Genet. 5, 1311-1318.

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