Catalog No. LF-MA0038

MONOCLONAL ANTIBODY

Anti-Glyceraldehyde-3-Phosphate Dehydrogenase (7B)

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-bisphos-phoglycerate 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 : Mouse

Clone number : 7B **Isotype :** IgG1, k

Size : 100ul

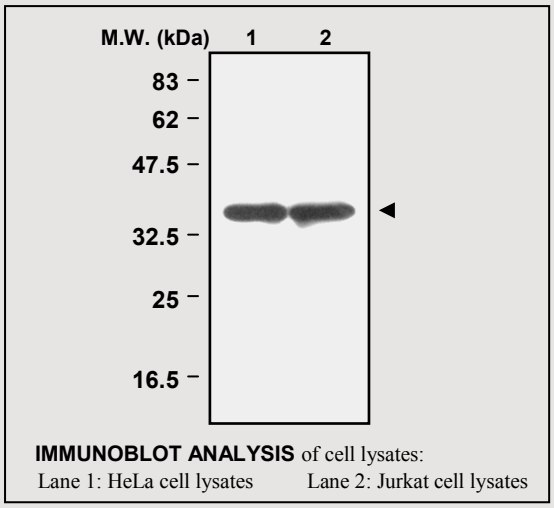
Composition : PBS containing 50% glycerol

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: HeLa cell lysates Lane 2: Jurkat cell lysates

Applications :
ELISA
Western Blotting (1:10000)
Immunoprecipitation (1-2ul/400ul 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.

Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium
http://www.gentaur-worldwide.com