Data Sheet (Cat.No.TMAB-00741)

GAPDH Loading Control Antibody (9U185)

Product Details

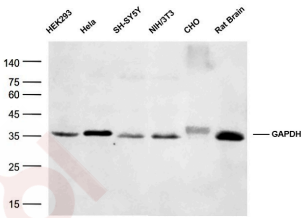
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Rabbit,Sheep,Hamster,Monkey)
Molecular Weight:	Theoretical: 38 kDa. Actual: 38 kDa.
Clone:	9U185
Purification:	Protein G purified

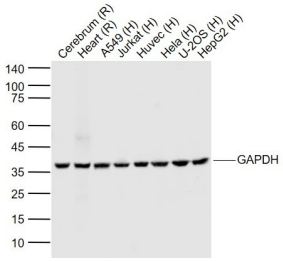
Applications

Verified Activity:

1. Sample:
Lane 1: Human HEK293 cell lysates
Lane 2: Human Hela cell lysates
Lane 3: Human SH-SY5Y cell lysates
Lane 4: Mouse NIH/3T3 cell lysates
Lane 5: Hamster CHO cell lysates
Lane 6: Rat Brain tissue lysates
Primary: Anti-GAPDH (TMAB-00741) at 1/200000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: 38 kDa
Observed band size: 38 kDa

2. Sample:
Lane 1: Rat Cerebrum tissue lysates
Lane 2: Rat Heart tissue lysates
Lane 3: Human A549 cell lysates
Lane 4: Human Jurkat cell lysates
Lane 5: Human Huvec cell lysates
Lane 6: Human Hela cell lysates
Lane 7: Human U2os cell lysates
Lane 8: Human HepG2 cell lysates
Primary: Anti-GAPDH (TMAB-00741) at 1/50000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: 38 kDa
Observed band size: 38 kDa





Application: WB

Recommended: WB: 1:5000-500000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinded Human GAPDH

Antigen Species: Human

Gene ID: 2597

Uniprot ID: P04406

Synonyms: GAPD;HEL-S-162eP;G3PD;glyceraldehyde-3-phosphate dehydrogenase

Biology Area: Energy Metabolism,Huntington's disease,Alzheimer's disease,Neurodegenerative disease, Cancer,Energy Metabolism,Carbohydrate metabolism,GAPDH,Metabolism of carbohydrates

Research Background

Glyceraldehyde 3 phosphate dehydrogenase (GAPDH) is well known as one of the key enzymes involved in glycolysis. As well as functioning as a glycolytic enzyme in cytoplasm, recent evidence suggests 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. During the last decade a lot of data appeared concerning the role of GAPDH in different pathologies including prostate cancer progression, programmed neuronal cell death, age related neuronal diseases, such as Alzheimer's and Huntington's disease. GAPDH is expressed in all cells. It is constitutively expressed in almost all tissues at high levels. There are however some physiological factors such as hypoxia and diabetes that increase GAPDH expression in certain cell types. GAPDH molecule is composed of four 36kDa subunits.

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