Anti-GAPDH antibody

Cat. No. AbC-2003

Size 200ul
Host Species Rabbit
Cross reactivity Human
Tested application ELISA, Western blot
Immunogen Synthetic peptide. RDPSKIKWGDAG (80-91aa) 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 Polyclonal
Isotype IgG
Positive control A431 cell

Recommended Dilution
ELISA 1/5000 – 1/10000
Western blot 1/5000 – 1/10000

Optimal working dilutions must be determined by end user.

Image

Western blot analysis of cell lysate:
Lane 1: A431 cell lysate
Lane 2: BT-474 cell lysate

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 processes 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.

Reference

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