## CoraLite®594-conjugated GAPDH Monoclonal antibody

Catalog Number: CL594-60004

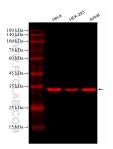
**3** Publications

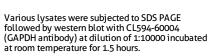
## Antibodies | ELISA kits | Proteins www.ptglab.com

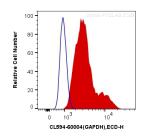
Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** CL594-60004 BC004109 Protein A purification GenelD (NCBI): CloneNo.: Size: 1000 µg/ml 2597 1E6D9 UNIPROT ID: Recommended Dilutions: Source: Mouse P04406 WB 1:5000-1:50000 Excitation/Emission maxima Full Name: Isotype lgG2b glyceraldehyde-3-phosphate wavelengths: 588 nm / 604 nm dehydrogenase Immunogen Catalog Number: AG0766 Calculated MW: 36 kDa **Observed MW:** 36 kDa **Applications Tested Applications:** Positive Controls: FC (Intra), WB WB: HeLa cells, HEK-293 cells, Jurkat cells **Cited Applications:** WB Species Specificity: human, mouse, rat, zebrafish, yeast, plant Cited Species: human, mouse **Background Information** Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the phosphorylation of glyceraldehyde-3phosphate during glycolysis. GAPDH participates in nuclear events including transcription, binding RNA, RNA transportation, DNA replication, DNA repair and apoptosis. Being stably and constitutively expressed at high levels in most tissues and cells, GAPDH is considered a housekeeping protein. It is widely used as a control for RT-PCR and also loading control in electrophoresis and Western blotting. GAPDH is normally expressed in cellular cytoplasm or membrane, but can occasionally translocate to the nucleus after the addition of post-translational modifications such as S-nitrosylation. This antibody is raised against full length GAPDH of human origin. It can recognize the 36 kDa GAPDH protein in most cells/tissues. In addition, a band below 36 kDa can always be detected as the isoform or spliced product of GAPDH (PMID: 23885286, 23877755, 19368702). Please note that some physiological factors, such as hypoxia and diabetes, increase GAPDH expression in certain cell types. **Notable Publications** Author Pubmed ID Journal Application **Guoging Sun** 36138991 Brain Sci WB Longfei Wang Int J Mol Med WB 37800598 Sascha Röth 37591251 Cell Chem Biol WB Storage Storage: Store at -20°C. Avoid exposure to light. Stable for one year after shipment. Storage Buffer: PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3. Aliquoting is unnecessary for -20°C storage

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data







1X10^6 HeLa cells were intracellularly stained with 0.2 ug CoraLite®594 Anti-Human GAPDH (CL594-60004, Clone:1E6D9) (red), or 0.2 ug Mouse IgG2b Isotype Control (CL594-66360-3, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).