

For Research Use Only

CoraLite®594-conjugated GAPDH Monoclonal antibody



Catalog Number: CL594-60004 **3 Publications**

Basic Information

| | | |
|---|--|---|
| Catalog Number: CL594-60004 | GenBank Accession Number: BC004109 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 2597 | CloneNo.: 1E6D9 |
| Source: Mouse | Full Name: glyceraldehyde-3-phosphate dehydrogenase | Recommended Dilutions: WB 1:5000-1:50000 |
| Isotype: IgG2b | Calculated MW: 36 kDa | Excitation/Emission maxima wavelengths: 588 nm / 604 nm |
| Immunogen Catalog Number: AG0766 | Observed MW: 36 kDa | |

Applications

| | |
|---|---|
| Tested Applications: FC (Intra), WB | Positive Controls: 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-3-phosphate 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 |
|--------------|-----------|----------------|-------------|
| Guoqing Sun | 36138991 | Brain Sci | WB |
| Longfei Wang | 37800598 | Int J Mol Med | WB |
| Sascha Röth | 37591251 | Cell Chem Biol | WB |

Storage

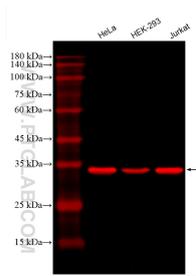
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

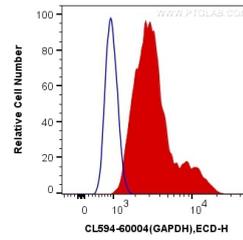
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL594-60004 (GAPDH antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1X10⁶ 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).