For Research Use Only

CoraLite® Plus 488-conjugated **GAPDH Monoclonal antibody**



Catalog Number: CL488-60004

7 Publications

Basic Information

Catalog Number: CL488-60004

1000 µg/ml Source: Mouse Isotype:

Immunogen Catalog Number:

AG0766

Tested Applications:

FC (Intra), WB Cited Applications:

lgG2b

Species Specificity:

human, mouse, rat, zebrafish, yeast, plant

Cited Species: human, rat, mouse GenBank Accession Number:

BC004109 GeneID (NCBI):

UNIPROT ID: P04406 Full Name:

glyceraldehyde-3-phosphate

dehydrogenase Calculated MW:

Observed MW: 36 kDa

36 kDa

Purification Method:

Protein A purification

CloneNo.: 1E6D9

Recommended Dilutions: WB 1:2000-1:16000

Excitation/Emission maxima

wavelengths: 493 nm / 522 nm

Applications

Positive Controls:

WB: A549 cells, HeLa cells, HEK-293 cells, Jurkat cells

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 |
|---------------|-----------|-------------------|-------------|
| Decai Chi | 34780782 | Exp Cell Res | WB |
| Julie A Hicks | 29577951 | Virus Res | WB |
| Guojun Gao | 32507767 | Aging (Albany NY) | WB |

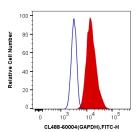
Storage

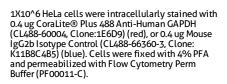
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

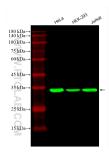
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

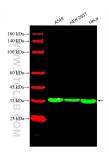
Selected Validation Data







Various lysates were subjected to SDS PAGE followed by western blot with CL488-60004 (GAPDH antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with CL488-60004 (GAPDH antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.