For Research Use Only

GAPDH Polyclonal antibody

Catalog Number: 10494-1-AP 7546 Publications

in USA), or 1(312) 455-8498 (outside USA)

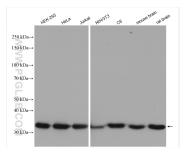
W: ptglab.com



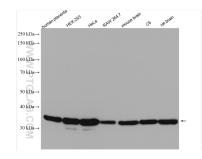
GenBank Accession Number: Catalog Number: **Purification Method: Basic Information** 10494-1-AP BC004109 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 600 ug/ml by 2597 WB 1:5000-1:40000 Nanodrop: IP 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: protein lysate Source P04406 IHC 1:200-1:800 Rabbit Full Name: IF/ICC 1:500-1:2000 Isotype glyceraldehyde-3-phosphate lgG dehydrogenase Immunogen Catalog Number: Calculated MW: AG0766 36 kDa **Observed MW:** 36 kDa **Applications Tested Applications:** Positive Controls: WB, IHC, IF/ICC, FC (Intra), IP, ELISA WB : human placenta tissue, HepG2 cells, HEK-293 **Cited Applications:** cells, HeLa cells, Raji cells, K-562 cells, mouse heart WB, IHC, IF, IP, CoIP, ChIP, RIP, ELISA tissue, PC-13 cells, arabidopsis whole plant tissue, corn whole plant tissue, mouse brain tissue, mouse Species Specificity: skin tissue, Jurkat cells, NIH/3T3 cells, C6 cells, rat human, mouse, rat brain tissue, RAW 264.7 cells **Cited Species:** IP: A549 cells. human, rat, chicken, goat, sheep, yeast, leech, treeshrew, arabidopsis, zebra finches IHC : human breast cancer tissue, human lung cancer tissue Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen IF/ICC : HeLa cells, HepG2 cells retrieval may be performed with citrate buffer pH 6.0 **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 Xin Xu 36178722 **Environ Toxicol** WB Hejie Wang 36178582 In Vitro Cell Dev Biol Anim WB Front Oncol Xin Wen 36249018 WB Storage: Storage Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage *** 20ul sizes contain 0.1% BSA This product is exclusively available under Proteintech For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com Group brand and is not available to purchase from any

other manufacturer.

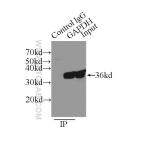
Selected Validation Data



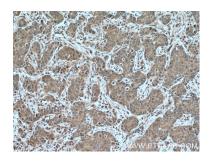
Various lysates were subjected to SDS PAGE followed by western blot with 10494-1-AP (GAPDH antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



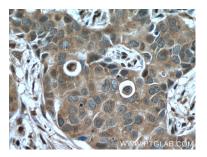
Various lysates were subjected to SDS PAGE followed by western blot with 10494-1-AP (GAPDH antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



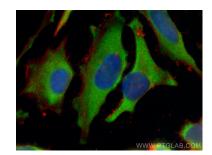
IP result of anti-GAPDH (IP:10494-1-AP, 3ug; Detection:10494-1-AP 1:3000) with A549 cells lysate 3500ug.



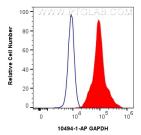
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 10494-1-AP (GAPDH antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 10494-1-AP (GAPDH antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using GAPDH antibody (10494-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CoraLite®594 Beta Actin antibody (CL594-66009, Clone: 2D4H5, red).



1x10^6 HEK-293 cells were intracellularly stained with 0.5 ug GAPDH Polyclonal antibody (10494-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.5 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).