For Research Use Only

GAPDH Recombinant antibody, PBS Only (Detector)

Catalog Number:81640-5-PBS

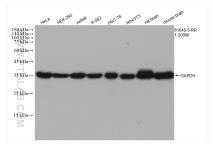


Basic Information	Catalog Number: 81640-5-PBS	GenBank Accession Number: BC004109	Purification Method: Protein A purification				
	Size: 100ug , Concentration: 1mg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG0766	GeneID (NCBI): 2597 UNIPROT ID: P04406 Full Name: glyceraldehyde-3-phosphate dehydrogenase	CloneNo.: 1H18				
				Calculated MW: 36 kDa			
				Observed MW: 36 kDa			
				Applications	Tested Applications: WB, IF/ICC, Cytometric bead array, I	Indirect ELISA	
					Species Specificity: human, mouse, rat		
		Product Information		81640-5-PBS targets GAPDH as part of a matched antibody pair:			
			MP00549-1: 81640-3-PBS capture and 81640-5-PBS detection (validated in Cytometric bead array)				
Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.							
	This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.						
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.						
Storage	Storage: Store at -80°C. Storage Buffer:						

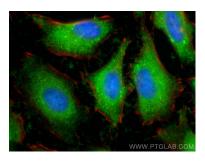
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

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

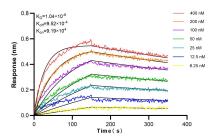
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 81640-5-RR (GAPDH antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81640-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GAPDH antibody (81640-5-RR, Clone: 1H18) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red). This data was developed using the same antibody clone with 81640-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 81640-5-RR against Human GAPDH were performed. The affinity constant is 10.4 nM.