For Research Use Only

## HIF2**a**/EPAS1 Recombinant antibody, PBS Only (Detector)

Catalog Number:83790-1-PBS

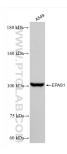


Basic Information	Catalog Number: 83790-1-PBS	GenBank Accession Number: BC051338	Purification Method: Protein A purification
	Size: 100ug , Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG15199	GenelD (NCBI):	CloneNo.:
		2034	240736F2
		UNIPROT ID:	
		Q99814 Full Name: endothelial PAS domain protein 1	
		96 kDa	
		Observed MW: 100-120 kDa	
		Applications	Tested Applications:
	WB, Cytometric bead array, Indirect	ELISA	
	Species Specificity: human, rat		
Product Information	83790-1-PBS targets HIF20/EPAS1 a	s part of a matched antibody pair	
	MP00775-1: 83790-4-PBS capture and 83790-1-PBS detection (validated in Cytometric bead array)		
	MP00775-2: 83790-2-PBS capture and 83790-1-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.		
		s cytometry, and multiplex imaging a	plications including: ELISAs, multiplex pplications.Antibody use should be
Background Information	placenta, lung and heart. HIF2A colo	calizes with HIF3A in the nucleus and	sed in most tissues, with highest levels in speckles. HIF2A as a transcription factor
	hypoxia response element (HRE) of t (VEGF) expression and seems to be i HIF2A may also play a role in the fo calculated molecular weight of HIF2 Pro-531 by EGLN1/PHD1, EGLN2/PHI VHL, initiating rapid ubiquitination a	arget gene promoters. HIF2A regulate implicated in the development of bloc rmation of the endothelium that gives A is 96 kDa, but In normoxia, HIF2A is D2 and/or EGLN3/PHD3. The hydroxyla and subsequent proteasomal degradat	DNA sequence 5'-[AG]CGTG-3' within the esthe vascular endothelial growth factor bod vessels and the tubular system of lung. is rise to the blood brain barrier. The is probably hydroxylated on Pro-405 and ated prolines promote interaction with tion. Under hypoxia, proline hydroxylatior e modified HIf2A is about 100-120 kDa.
Storage	Storage:		
	Store at -80°C. Storage Buffer: PBS Only		

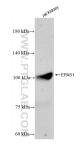
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

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

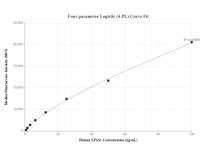
## Selected Validation Data



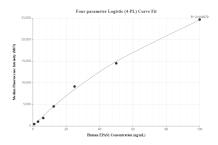
A549 cells were subjected to SDS PAGE followed by western blot with 83790-1-RR (EPAS1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83790-1-PBS in a different storage buffer formulation.

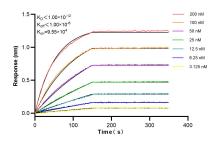


rat kidney tissue were subjected to SDS PAGE followed by western blot with 83790-1-RR (EPAS1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83790-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00775-1, HIF20/EPAS1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83790-4-PBS. Detection antibody: 83790-1-PBS. Standard: Ag15199. Range: 0.78-100 ng/mL





Cytometric bead array standard curve of MP00775-2, HIF20/EPAS1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83790-2-PBS. Detection antibody: 83790-1-PBS. Standard: Ag15199. Range: 0.78-100 ng/mL

Biolayer interferometry (BLL) kinetic assays of 83790-1-RR against Human HIF20/EPAS1 were performed. The affinity constant is below 1 pM.