

For Research Use Only

EGLN3 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83321-1-PBS



Basic Information

Catalog Number:	83321-1-PBS	GenBank Accession Number:	BC010992	Purification Method:	Protein A purification
Size:	1 mg/ml	GeneID (NCBI):	112399	CloneNo.:	240165A6
Source:	Rabbit	UNIPROT ID:	Q9H6Z9		
Isotype:	IgG	Full Name:	egl nine homolog 3 (C. elegans)		
Immunogen Catalog Number:	AG27464	Calculated MW:	27 kDa		
		Observed MW:	27 kDa		

Applications

Tested Applications:
IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human

Background Information

EGLN3, also named as HPH-1, HIF-PH3, HPH-3 and PHD3, is a cellular oxygen sensor that catalyzes, under normoxic conditions, the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. It hydroxylates a specific proline found in each of the oxygen-dependent degradation (ODD) domains (N-terminal, NODD, and C-terminal, CODD) of HIF1A. It is a regulator of cardiomyocyte and neuronal apoptosis. EGLN3 can be a prognostic marker for gastric cancer.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

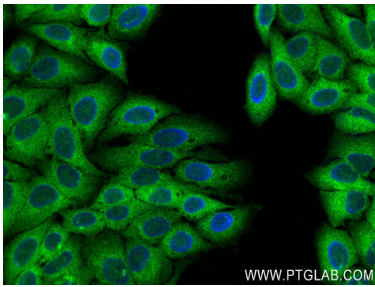
T: 4006900926

E: Proteintech-CN@ptglab.com

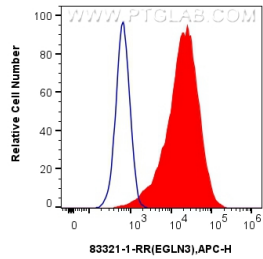
W: ptgcn.com

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

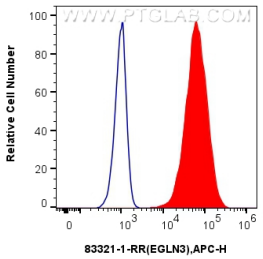
Selected Validation Data



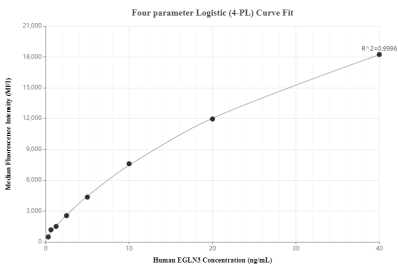
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using EGLN3 antibody (83321-1-RR, Clone: 240165A6) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83321-1-PBS in a different storage buffer formulation.



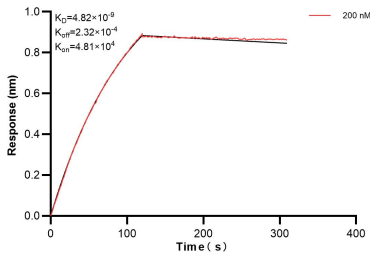
1x10⁶ MCF-7 cells were intracellularly stained with 0.25 ug EglN3 Recombinant Antibody (83321-1-RR, Clone:240165A6) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83321-1-PBS in a different storage buffer formulation.



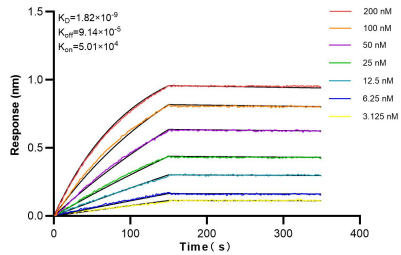
1x10⁶ A549 cells were intracellularly stained with 0.25 ug EglN3 Recombinant Antibody (83321-1-RR, Clone:240165A6) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83321-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00347-1, EGLN3 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83321-1-PBS. Detection antibody: 83321-4-PBS. Standard: Ag27464. Range: 0.313-40 ng/mL



Bioluminescence resonance energy transfer (BRET) kinetic assay of 83321-1-PBS against Human EGLN3 was performed. The affinity constant is 4.82 nM.



Bioluminescence resonance energy transfer (BRET) kinetic assays of 83321-1-RR against Human EGLN3 were performed. The affinity constant is 1.82 nM.