

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: 100ug, Concentration: 1 mg/ml by Nanodrop;	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

Product Information

83321-1-PBS targets EGLN3 as part of a matched antibody pair:

MP00347-1: 83321-1-PBS capture and 83321-4-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

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

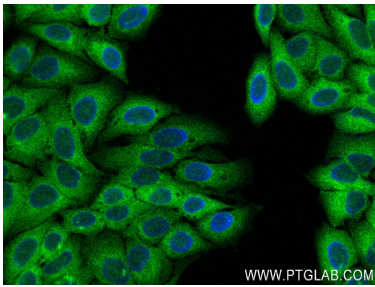
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

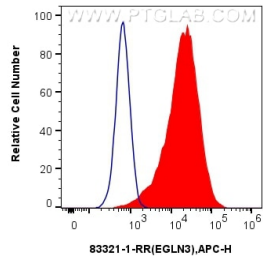
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

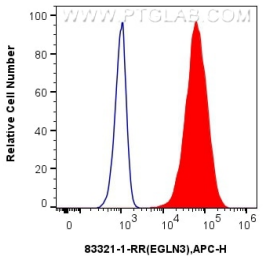
Selected Validation Data



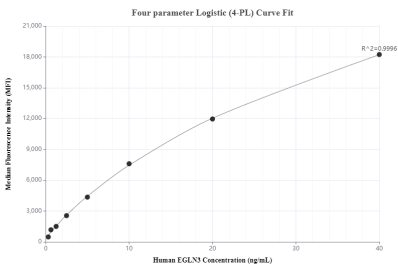
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using EGLN3 antibody (83321-1-RR, Clone: 240165A6) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83321-1-PBS in a different storage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



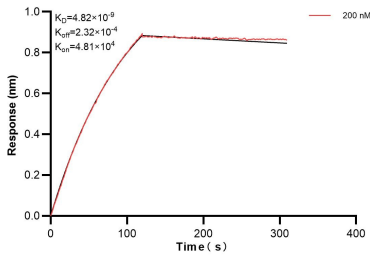
1x10⁶ MCF-7 cells were intracellularly stained with 0.25 ug Egln3 Recombinant Antibody (83321-1-RR, Clone:240165A6) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83321-1-PBS in a different storage buffer formulation.



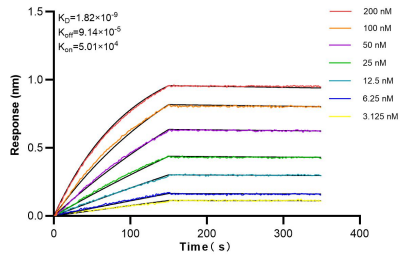
1x10⁶ A549 cells were intracellularly stained with 0.25 ug Egln3 Recombinant Antibody (83321-1-RR, Clone:240165A6) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). 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



Biolayer interferometry (BLI) kinetic assay of 83321-1-PBS against Human EGLN3 was performed. The affinity constant is 4.82 nM.



Biolayer interferometry (BLI) kinetic assays of 83321-1-RR against Human EGLN3 were performed. The affinity constant is 1.82 nM.