

For Research Use Only

EGLN3 Recombinant antibody

Catalog Number:83321-1-RR



Basic Information

Catalog Number: 83321-1-RR	GenBank Accession Number: BC010992	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 112399	CloneNo.: 240165A6
Source: Rabbit	UNIPROT ID: Q9H6Z9	Recommended Dilutions: IF/ICC 1:125-1:500
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), ELISA	Positive Controls: IF/ICC : HepG2 cells,
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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

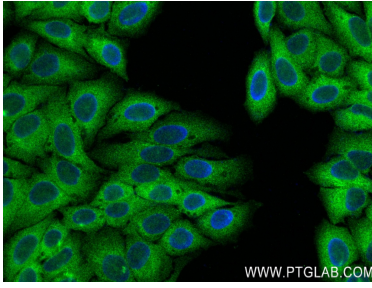
T: 4006900926

E: Proteintech-CN@ptglab.com

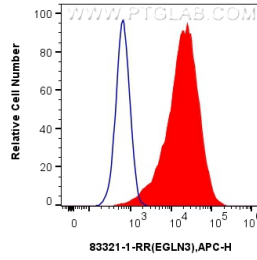
W: ptgcn.com

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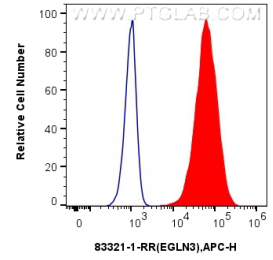
Selected Validation Data



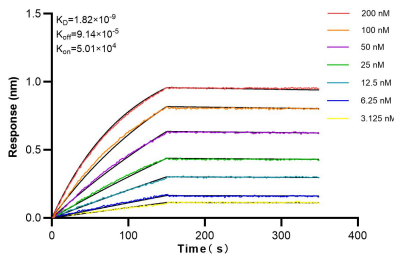
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using EGLN3 antibody (83321-1-RR, Clone: 240165A6) at dilution of 1:250 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



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).



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).



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