

For Research Use Only

CoraLite®594-conjugated PHD2/EGLN1 Monoclonal antibody



Catalog Number:CL594-66589

Basic Information

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|---|--|---|
| Catalog Number: CL594-66589 | GenBank Accession Number: NM_022051 | Purification Method: Protein G purification |
| Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 54583 | CloneNo.: 1A2F1 |
| Source: Mouse | Full Name: egl nine homolog 1 (C. elegans) | Recommended Dilutions: IF 1:50-1:500 |
| Isotype: IgG1 | Calculated MW: 46 kDa | Excitation/Emission maxima wavelengths: 593 nm / 614 nm |

Applications

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| Tested Applications: IF | Positive Controls: IF : HEK-293 cells, |
| Species Specificity: Human, Mouse , Rat , Pig | |

Background Information

EGLN1, also named as PHD2, SM-20, HPH-2 and HIF-PH2, catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. It hydroxylates HIF-1 alpha at 'Pro-402' and 'Pro-564', and HIF-2 alpha. EGLN1 functions as a cellular oxygen sensor and, under normoxic conditions, targets HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex. Defects in EGLN1 are the cause of erythrocytosis familial type 3 (ECYT3). EGLN1 has 3 isoforms with MW of 46 kDa, 44 kDa and 36 kDa produced by alternative splicing. It mainly localizes in cytoplasm and can shuttle between the nucleus and cytoplasm (PubMed:19631610). The antibody is specific to EGLN1.

Storage

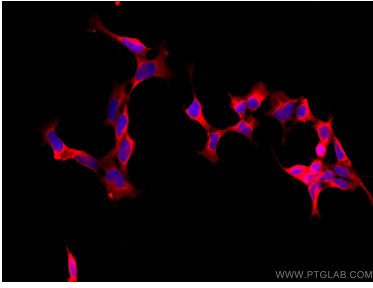
Storage:
Store at -20°C. Avoid exposure to light.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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 HEK-293 cells using CoraLite®594 PHD2/EGLN1 antibody (CL594-66589, Clone: 1A2F1) at dilution of 1:200.