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36-2977: Anti-EGLN1 / PHD2 Monoclonal Antibody(Clone: 366G/76/3)

Clonality :	Monoclonal
Clone Name :	366G/76/3
Application :	WB,IHC
Reactivity :	Human
Gene :	EGLN1
Gene ID :	54583
Uniprot ID :	Q9GZT9
Alternative Name :	Chromosome 1 Open Reading Frame 12 (C1ORF12); DKFZp761F179; ECYT3; Egl 9 family hypoxia inducible factor 1; Egl nine homolog 1; Egln1; HIF Prolyl Hydroxylase 2 (HIF PH2); HIFPH2; HPH2; Hypoxia inducible factor prolyl hydroxylase 2; ORF13; P4H2; PhD2; PNAS 118; PNAS 137; Prolyl hydroxylase domain-containing protein 2; SM20; Zinc finger MYND domain containing protein 6 (ZMYND6)
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Residues 1-24 of PHD2

Description

366G/76/3 recognises human prolyl hydroxylase 2 (PHD2), a 46kDa enzyme expressed abundantly in all tissues with the highest expression in testis. Hypoxia inducible factor-1 (HIF-1) is a transcriptional complex, consisting of an alpha and beta subunit, which plays a key role in coordinating the cellular response to hypoxia. During normal oxygen conditions, the alpha subunit of HIF-1 is rapidly degraded, however when hypoxia occurs this degradation is suppressed and HIF-1 activates the transcription of various genes important for survival and adaptation to hypoxia. Prolyl hydroxylase 2 catalyses the hydroxylation of specific prolyl residues within the HIF-1 alpha subunit, thereby targeting this subunit for degradation.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

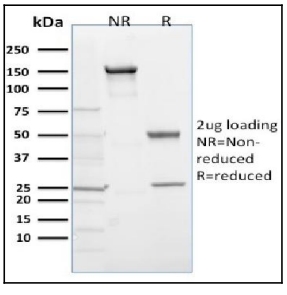


Fig. 1: SDS-PAGE Analysis Purified EGLN1 / PHD2 Mouse Monoclonal Antibody (366G/76/3). Confirmation of Purity and Integrity of Antibody.

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