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Anti-Human/Mouse/Rat EGLN3 Polyclonal Antibody

多克隆抗体

产品货号: PA07066

第三版

描述: Cellular oxygen sensor that catalyzes, under normoxic conditions, the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates a specific proline found in each of the oxygen-dependent degradation (ODD) domains (N-terminal, NODD, and C-terminal, CODD) of HIF1A. Also hydroxylates HIF2A. Has a preference for the CODD site for both HIF1A and HIF2A. Hydroxylation on the NODD site by EGLN3 appears to require prior hydroxylation on the CODD site. Hydroxylated HIFs are then targeted for proteasomal degradation via the von Hippel-Lindau ubiquitination complex. Under hypoxic conditions, the hydroxylation reaction is attenuated allowing HIFs to escape degradation resulting in their translocation to the nucleus, heterodimerization with HIF1B, and increased expression of hypoxia-inducible genes. EGLN3 is the most important isozyme in limiting physiological activation of HIFs (particularly HIF2A) in hypoxia. Also hydroxylates PKM in hypoxia, limiting glycolysis. Under normoxia, hydroxylates and regulates the stability of ADRB2. Regulator of cardiomyocyte and neuronal apoptosis. In cardiomyocytes, inhibits the anti-apoptotic effect of BCL2 by disrupting the BAX-BCL2 complex.

抗原: Recombinant protein of human EGLN3

配方:

如何使用: 加1ml超纯水重溶

稳定性: -20 ° C保存条件下，冻干粉,保质期为五年；液体，保质期为两年。

稀释液: PBS (pH7.4) ， 1% BSA

应用: WB 1 ~ 5 μ g/ml.

特异性: Widely expressed at low levels. Expressed at higher levels in heart (cardiac myocytes, aortic endothelial cells and coronary artery smooth muscle) and placenta.