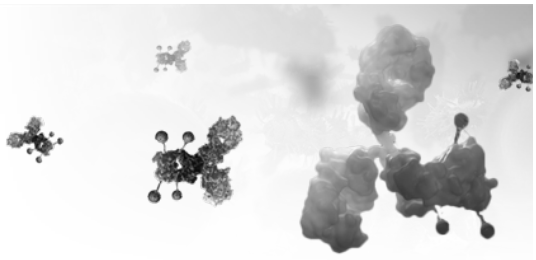

Anti-EGLN1 (aa 272-355) polyclonal antibody (DPAB-DC2344)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. HIF is a transcriptional complex that plays a central role in mammalian oxygen homeostasis. This protein functions as a cellular oxygen sensor, and under normal oxygen concentration, modification by prolyl hydroxylation is a key regulatory event that targets HIF subunits for proteasomal destruction via the von Hippel-Lindau ubiquitylation complex. Mutations in this gene are associated with erythrocytosis familial type 3 (ECYT3).
Immunogen	EGLN1 (NP_071334, 272 a.a. ~ 355 a.a) partial recombinant protein with GST tag. The sequence is LMSSMDDLIRHCNGKLGSYKINGRTKAMVACYPGNGTGYVRHVDNPNGDGRCVTCIYYLNKDWDAKVSGGILRIFPEGKAQFAD
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Gene Name	EGLN1 egl-9 family hypoxia-inducible factor 1 [Homo sapiens (human)]
Official Symbol	EGLN1
Synonyms	EGLN1; egl-9 family hypoxia-inducible factor 1; HPH2; PHD2; SM20; ECYT3; HPH-2; HIFPH2; ZMYND6; C1orf12; HIF-PH2; egl nine homolog 1; egl nine-like protein 1; HIF prolyl hydroxylase 2; HIF-prolyl hydroxylase 2; zinc finger MYND domain-containing protein 6; hypoxia-inducible factor prolyl hydroxylase 2; prolyl hydroxylase domain-containing protein 2;
Entrez Gene ID	54583
Protein Refseq	NP_071334
UniProt ID	Q9GZT9
Chromosome Location	1q42.1
Pathway	Cellular response to hypoxia; HIF-1 signaling pathway; HIF-2-alpha transcription factor network; Pathways in cancer
Function	L-ascorbic acid binding; enzyme binding; iron ion binding; peptidyl-proline 4-dioxygenase activity

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