Recombinant Human EPAS1

Cat. No. EPAS1-29318TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment (amino acids 28-347) of Human HIF2 alpha with proprietary tag at the N terminal; Predicted MW 60.83 kDa, inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	320 amino acids
Description	This gene encodes a transcription factor involved in the induction of genes regulated by oxygen, which is induced as oxygen levels fall. The encoded protein contains a basic-helix-loop-helix domain protein dimerization domain as well as a domain found in proteins in signal transduction pathways which respond to oxygen levels. Mutations in this gene are associated with erythrocytosis familial type 4.
Molecular Weight	60.830kDa inclusive of tags
Tissue specificity	Expressed in most tissues, with highest levels in placenta, lung and heart. Selectively expressed in endothelial cells.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SKETEVFYELAHELPLPHSVSSHLDKASIMRLAISFLRTH KLLSSVCSENESEAEADQ QMDNLYLKALEGFIAVVTQDGD MIFLSENISKFMGLTQVELTGHSIFDFTHPCDHEEI RENL SLKNGSGFGKKSKDMSTERDFFMRMKCTVTNRGRTVNLKS ATWKVLHCTG QVKVYNNCPPHNSLCGYKEPLLSCLIIMCE PIQHPSHMDIPLDSKTFLSRHSMDMKF TYCDDRITELIGY HPEELLGRSAYEFYHALDSENMTKSHQNLCTKGQVVSGQY RML AKHGGYVWLETQGTVIYNPRNLQPQCIMCVNYVLSEI
Sequence Similarities	Contains 1 basic helix-loop-helix (bHLH) domain.Contains 1 PAC (PAS-associated C-terminal) domain.Contains 2 PAS (PER-ARNT-SIM) domains.

GENE INFORMATION

Gene Name	EPAS1 endothelial PAS domain protein 1 [Homo sapiens]
Official Symbol	EPAS1
Synonyms	EPAS1; endothelial PAS domain protein 1; endothelial PAS domain-containing protein 1; bHLHe73; HIF 1 alpha like factor; HIF2A; HLF; MOP2; PASD2;
Gene ID	2034
mRNA Refseq	NM_001430
Protein Refseq	NP_001421
MIM	603349
Uniprot ID	Q99814

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Chromosome Location	2p21-p16
Pathway	Adipogenesis, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Renal cell carcinoma, organism-specific biosystem; Renal cell carcinoma, conserved biosystem;
Function	DNA binding; histone acetyltransferase binding; protein binding; protein heterodimerization activity; contributes_to sequence-specific DNA binding;

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