

## Recombinant Human EPAS1 protein, His/S-tagged

**Cat. No.** EPAS1-150H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human EPAS1 fused with His/S tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Transcription factor involved in the induction of oxygen regulated genes. Binds to core DNA sequence 5'-[AG]CGTG-3' within the hypoxia response element (HRE) of target gene promoters. Regulates the vascular endothelial growth factor (VEGF) expression and seems to be implicated in the development of blood vessels and the tubular system of lung. May also play a role in the formation of the endothelium that gives rise to the blood brain barrier. Potent activator of the Tie-2 tyrosine kinase expression. Activation requires recruitment of transcriptional coactivators such as CREBPB and probably EP300. Interaction with redox regulatory protein APEX seems to activate CTAD. |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Store at -70 centigrade. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### GENE INFORMATION

|                  |                                                         |
|------------------|---------------------------------------------------------|
| <b>Gene Name</b> | EPAS1 endothelial PAS domain protein 1 [ Homo sapiens ] |
|------------------|---------------------------------------------------------|

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | EPAS1                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>            | EPAS1; endothelial PAS domain protein 1; endothelial PAS domain-containing protein 1; bHLHe73; HIF 1 alpha like factor; HIF2A; HLF; MOP2; PASD2; EPAS-1; HIF2-alpha; HIF-2-alpha; HIF-1alpha-like factor; HIF-1-alpha-like factor; member of PAS protein 2; PAS domain-containing protein 2; hypoxia-inducible factor 2 alpha; hypoxia-inducible factor 2-alpha; basic-helix-loop-helix-PAS protein MOP2; class E basic helix-loop-helix protein 73; ECYT4; |
| <b>Gene ID</b>             | 2034                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_001430                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_001421                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 603349                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | Q99814                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 2p21-p16                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | 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; Signaling events mediated by VEGFR1 and VEGFR2, organism-specific biosystem;                                                                                                               |
| <b>Function</b>            | DNA binding; histone acetyltransferase binding; protein binding; protein heterodimerization activity; contributes_to sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; signal transducer activity;                                                                                                                                                                                                                |

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transcription factor binding;

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