

EPAS1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10707a**Specification**

EPAS1 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q99814](#)**EPAS1 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 2034**Other Names**

Endothelial PAS domain-containing protein 1, EPAS-1, Basic-helix-loop-helix-PAS protein MOP2, Class E basic helix-loop-helix protein 73, bHLHe73, HIF-1-alpha-like factor, HLF, Hypoxia-inducible factor 2-alpha, HIF-2-alpha, HIF2-alpha, Member of PAS protein 2, PAS domain-containing protein 2, EPAS1, BHLHE73, HIF2A, MOP2, PASD2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

EPAS1 Antibody (N-term) Blocking peptide - Protein Information**Name** EPAS1**Synonyms** BHLHE73, HIF2A, MOP2, PASD2**Function**

Transcription factor involved in the induction of oxygen regulated genes. Heterodimerizes with ARNT; heterodimer binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters (By similarity). 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 CREBBP and probably EP300. Interaction with redox regulatory protein APEX1 seems to activate CTAD (By similarity).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:P97481, ECO:0000255|PROSITE-ProRule:PRU00981}. Nucleus speckle {ECO:0000250|UniProtKB:P97481}. Note=Colocalizes with HIF3A in the nucleus and speckles. {ECO:0000250|UniProtKB:P97481}

Tissue Location

Expressed in most tissues, with highest levels in placenta, lung and heart. Selectively expressed in endothelial cells

EPAS1 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

EPAS1 Antibody (N-term) Blocking peptide - Images**EPAS1 Antibody (N-term) Blocking peptide - Background**

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.

EPAS1 Antibody (N-term) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Yi, X., et al. Science 329(5987):75-78(2010) Bougatef, F., et al. PLoS ONE 5 (8), E12265 (2010) :Hossein Ghaderian, S.M., et al. Pathology 42(5):446-453(2010) Mowat, F.M., et al. PLoS ONE 5 (6), E11103 (2010) :