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HIF2A / EPAS1 Antibody (clone EP190b)

Mouse Monoclonal Antibody
Catalog # ALS15320

Specification

HIF2A / EPAS1 Antibody (clone EP190b) - Product Information

Application	**IHC**
Primary Accession	Q99814
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**96kDa KDa**

HIF2A / EPAS1 Antibody (clone EP190b) - 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

Target/Specificity
Does not cross-react with Hif-1alpha

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
HIF2A / EPAS1 Antibody (clone EP190b) is for research use only and not for use in diagnostic or therapeutic procedures.

HIF2A / EPAS1 Antibody (clone EP190b) - 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}

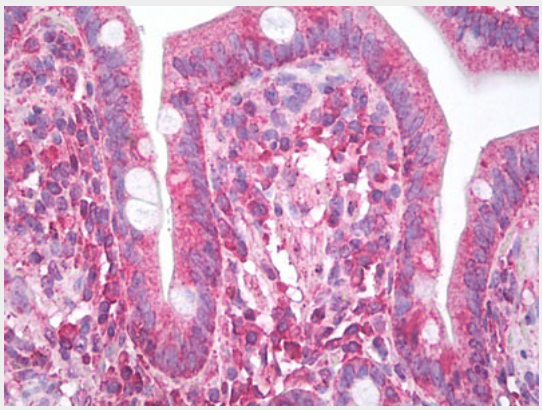
Tissue Location
Expressed in most tissues, with highest levels in placenta, lung and heart. Selectively expressed in endothelial cells

HIF2A / EPAS1 Antibody (clone EP190b) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HIF2A / EPAS1 Antibody (clone EP190b) - Images



Anti-HIF2A / EPAS1 antibody IHC of human small intestine.

HIF2A / EPAS1 Antibody (clone EP190b) - Background

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 seems to require recruitment of transcriptional coactivators such as CREBPB and probably EP300. Interaction with redox regulatory protein APEX seems to activate CTAD.

HIF2A / EPAS1 Antibody (clone EP190b) - References

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Hogenesch J.B.,et al.J. Biol. Chem. 272:8581-8593(1997).

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