



EPAS-1 Monoclonal Antibody

Catalog No	BYmab-02237
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	EPAS1 BHLHE73 HIF2A MOP2 PASD2
Protein Name	Endothelial PAS domain-containing protein 1
Immunogen	Synthesized peptide derived from human EPAS-1 around the non-acetylation site of K385.
Specificity	EPAS-1 Monoclonal Antibody detects endogenous levels of EPAS-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EPAS1; BHLHE73; HIF2A; MOP2; PASD2; 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
Observed Band	110-120kD
Cell Pathway	Nucleus . Nucleus speckle . Colocalizes with HIF3A in the nucleus and speckles. .
Tissue Specificity	Expressed in most tissues, with highest levels in placenta, lung and heart. Selectively expressed in endothelial cells.
Function	disease:Defects in EPAS1 are the cause of erythrocytosis familial type 4 (ECYT4) [MIM:611783]. ECYT4 is an autosomal dominant disorder characterized by increased serum red blood cell mass, elevated hemoglobin concentration and hematocrit, and normal platelet and leukocyte counts.,function: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

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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

Background

endothelial PAS domain protein 1(EPAS1) Homo sapiens 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. [provided by RefSeq, Nov 2009],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images