Best Tools for immunology Research

Acetyl-EPAS-1 (K385) Polyclonal Antibody

Catalog No :	YK0073
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	EPAS-1
Fields :	>>Pathways in cancer;>>Renal cell carcinoma
Gene Name :	EPAS1 BHLHE73 HIF2A MOP2 PASD2
Protein Name :	Acetyl-EPAS-1 (K385)
Human Gene Id :	2034
Human Swiss Prot No :	Q99814
Mouse Swiss Prot No :	P97481
Rat Swiss Prot No :	Q9JHS1
Immunogen :	Synthesized acetyl-peptide of Acetyl-EPAS-1 (K385)
Specificity :	Acetyl-EPAS-1 (K385) Polyclonal Antibody detects endogenous levels of Acetyl-EPAS-1 (K385)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000, ELISA 1:10000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 120kD

Cell Pathway : Pathways in cancer;Renal cell carcinoma;

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],

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 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

Subcellular Location : Nucleus . Nucleus speckle . Colocalizes with HIF3A in the nucleus and speckles. .

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

Products Images