

For Research Use Only

# HIF2 $\alpha$ /EPAS1 Monoclonal antibody, PBS Only



Catalog Number: 66731-1-PBS

## Basic Information

<b>Catalog Number:</b> 66731-1-PBS	<b>GenBank Accession Number:</b> BC051338	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2034	<b>CloneNo.:</b> 2F6B12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q99814	
<b>Isotype:</b> IgG2a	<b>Full Name:</b> endothelial PAS domain protein 1	
<b>Immunogen Catalog Number:</b> AG24886	<b>Calculated MW:</b> 96 kDa	
	<b>Observed MW:</b> 120 kDa	

## Applications

**Tested Applications:**  
WB, IHC, Indirect ELISA

**Species Specificity:**  
Human

## Background Information

Endothelial PAS domain-containing protein 1 (EPAS1), also known as Hypoxia-inducible factor 2-alpha (HIF2-alpha, HIF2A), is a 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 CREBBP and probably EP300. Interaction with redox regulatory protein APEX seems to activate CTAD. EPAS1 is expressed in most tissues, with highest levels in placenta, lung and heart. Selectively expressed in endothelial cells.

## Storage

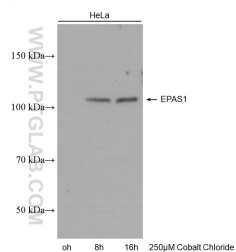
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

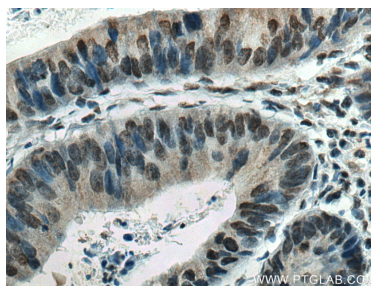
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



untreated and cobalt chloride treated HeLa cells were subjected to SDS PAGE followed by western blot with 66731-1-Ig (EPAS1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66731-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66731-1-Ig (EPAS1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66731-1-PBS in a different storage buffer formulation.