For Research Use Only

HIF2 α /EPAS1 Monoclonal antibody

Catalog Number:66731-1-Ig 5 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
66731-1-Ig

Size:
1600 μg/ml

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG24886

GenBank Accession Number:
BC051338

GeneID (NCBI):
2034

UNIPROT ID:
Q99814

Full Name:
endothelial PAS domain protein 1

Calculated MW:
96 kDa

Observed MW:
120 kDa

Purification Method:
Protein A purification

CloneNo.:
2F6B12

Recommended Dilutions:
WB 1:1000-1:5000
IHC 1:250-1:1000

Applications

Tested Applications:
IHC, WB, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
Human

Cited Species:
human, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HepG2 cells

IHC : human colon cancer tissue,

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 CREBPB 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Chen Lv	36325096	Front Vet Sci	WB,IF
Dayan Sun	33279689	Cell Mol Gastroenterol Hepatol	WB
Muyuan You	38778816	Oncoimmunology	IHC,IF

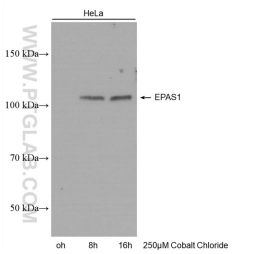
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

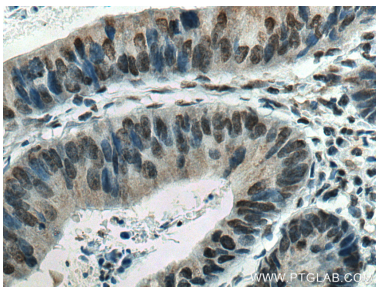
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.



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).