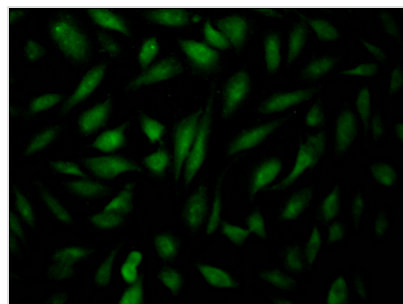




EPAS1 Antibody

Product Code	CSB-RA904931A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q99814
Immunogen	A synthesized peptide derived from human HIF-2 alpha
Species Reactivity	Human
Tested Applications	ELISA, IF; Recommended dilution: IF:1:20-1:200
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling; Cancer; Cardiovascular; Metabolism
Gene Names	EPAS1
Accession NO.	6A9

Image



Immunofluorescence staining of HeLa Cells with CSB-RA904931A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



Description

EPAS1, also known as HIF2 α , is involved in the hypoxic response and has been linked to Tibetans' genetic adaptability to high-altitude hypoxia. In different malignancies, HIF2 is a key determinant of invasion and metastasis. HIF2 α has been found to be overexpressed in a variety of cancers, including gastric cancer. HIF2 α is connected with pheochromocytoma malignancy and plays a crucial function in the sympathetic nervous system (SNS), both during development and in pathological situations.

The production of the recombinant EPAS1 antibody includes extracting RNA from spleen cells that are derived from immunized animals, reversely transcribing the RNA into DNA, sequencing and screening antibody genes, amplifying the heavy chain and light chain genes of the antibody using PCR technology, linking and cloning the genes into a plasma vector, and introducing the vector clone into a mammalian cell for functional antibody expression. The recombinant EPAS1 antibody was purified using Affinity-chromatography. It can be used to detect the EPAS1 antibody from Human in the ELISA, IF.