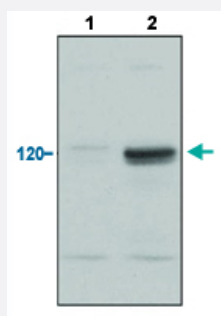


EPAS1 polyclonal antibody

Catalog # PAB12124

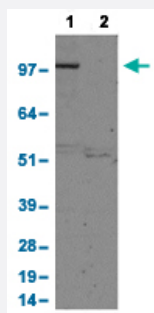
Size 100 uL

Applications



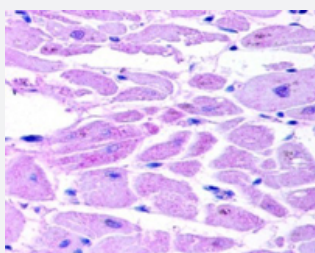
Western Blot (Cell lysate)

Western Blot analysis of (1) normoxic and (2) hypoxic nuclear rat cell lysates with EPAS1 polyclonal antibody (Cat # PAB12124).



Western Blot (Cell lysate)

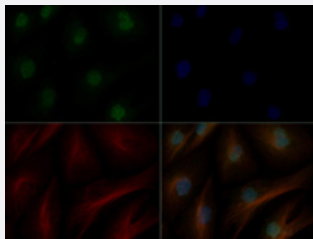
Western Blot analysis of (1) Cobalt chloride treated COS-7 nuclear extracts and (2) untreated COS-7 nuclear extracts with EPAS1 polyclonal antibody (Cat # PAB12124).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cardiac myocytes with EPAS1 polyclonal antibody (Cat # PAB12124).

Immunofluorescence



Immunofluorescent staining of RCC4 cells with EPAS1 polyclonal antibody (Cat # PAB12124) at a 1:200 dilution against Dylight 488 (Green). Alpha tubulin and nuclei were counterstained against Dylight 568 (Red) and DAPI (Blue), respectively.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of EPAS1.
Immunogen	A synthetic peptide corresponding to C-terminus of human and mouse EPAS1/Epas1.
Host	Rabbit
Theoretical MW (kDa)	118
Reactivity	Human, Mouse, Primates, Rat
Specificity	Specific for HIF-2 alpha/EPAS. Does not cross-react with HIF-1 alpha.
Form	Liquid
Purity	Immunogen affinity purification
Recommend Usage	ChIP (1:10-1:500) ELISA (1:100-1:2000) Flow Cytometry Gel Supershift Assay Immunocytochemistry (1:100) Immunofluorescence (1:100) Immunohistochemistry (Frozen sections) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:100) Immunoprecipitation Western Blot (1.0-2.0 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- ChIP

- Western Blot (Cell lysate)

Western Blot analysis of (1) normoxic and (2) hypoxic nuclear rat cell lysates with EPAS1 polyclonal antibody (Cat # PAB12124).

- Western Blot (Cell lysate)

Western Blot analysis of (1) Cobalt chloride treated COS-7 nuclear extracts and (2) untreated COS-7 nuclear extracts with EPAS1 polyclonal antibody (Cat # PAB12124).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cardiac myocytes with EPAS1 polyclonal antibody (Cat # PAB12124).

- Immunohistochemistry (Frozen sections)

- Immunocytochemistry

- Immunofluorescence

Immunofluorescent staining of RCC4 cells with EPAS1 polyclonal antibody (Cat # PAB12124) at a 1:200 dilution against Dylight 488 (Green). Alpha tubulin and nuclei were counterstained against Dylight 568 (Red) and DAPI (Blue), respectively.

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

- Gel Supershift Assay

- Flow Cytometry

Gene Info — EPAS1

Entrez GeneID	2034
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Protein Accession#	P97481
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Gene Name	EPAS1
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Gene Alias	ECYT4, HIF2A, HLF, MOP2, PASD2, bHLHe73
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Gene Description	endothelial PAS domain protein 1
Omim ID	603349
Gene Ontology	Hyperlink
Other Designations	HIF-1alpha-like factor

Gene Info — Epas1

Entrez GeneID	13819
Protein Accession#	P97481
Gene Name	Epas1
Gene Alias	HIF-2alpha, HLF, HRF, MOP2
Gene Description	endothelial PAS domain protein 1
Gene Ontology	Hyperlink
Other Designations	HIF1 alpha-like factor HIF1 alpha-like factor HLF (HIF1 alpha-like factor) Hif like protein hypoxia inducible transcription factor 2alpha

Publication Reference

- [Role of Arginase-II in Podocyte Injury under Hypoxic Conditions.](#)

Zhilong Ren, Duilio Michele Potenza, Yiqiong Ma, Guillaume Ajalbert, David Hoogewijs, Xiu-Fen Ming, Zhihong Yang.
Biomolecules 2022 Aug; 12(9):1213.

Application: WB-Ce, WB-Tr, Human, Human podocytes

- [Inhibition of firefly luciferase activity by a HIF prolyl hydroxylase inhibitor.](#)

Julia Günter, Roland H Wenger, Carsten C Scholz.
Journal of Photochemistry and Photobiology. B, Biology 2020 Sep; 210:111980.

Application: WB-Ce, Human, HEK 293, HRB5rl cells

- [The Expression of Decidual Protein Induced by Progesterone \(DEPP\) is Controlled by Three Distal Consensus Hypoxia Responsive Element \(HRE\) in Hypoxic Retinal Epithelial Cells.](#)

Klee K, Storti F, Maggi J, Todorova V, Karademir D, Berger W, Samardzija M, Grimm C.
Genes 2020 Jan; 11(1):E111.

Application: WB-Ce, WB-Tr, Human, ARPE-19, U87 cells

- [Distal and proximal hypoxia response elements cooperate to regulate organ-specific erythropoietin gene expression.](#)

Orlando IMC, Lafleur VN, Storti F, Spielmann P, Crowther L, Santambrogio S, Schödel J, Hoogewijs D, Mole DR, Wenger RH. Haematologica 2019 Dec; [Epub].

Application: WB-Ce, Human, Hep 3B2.1-7, HepG2, Kelly cells

- [Hypoxia Enhances Endothelial Intercellular Adhesion Molecule 1 Protein Level Through Upregulation of Arginase Type II and Mitochondrial Oxidative Stress.](#)

Liang X, Arullampalam P, Yang Z, Ming XF.

Frontiers in Physiology 2019 Aug; 10:1003.

Application: WB-Ce, Human, HUVECs

- [IL-8 and CXCR1 expression is associated with cancer stem cell-like properties of clear cell renal cancer.](#)

Corrò C, Healy ME, Engler S, Bodenmiller B, Li Z, Schraml P, Weber A, Frew IJ, Rechsteiner M, Moch H.

The Journal of Pathology 2019 Jul; 248(3):377.

Application: WB, Human, ACHN, Cak-1 cells

- [Hif1a inactivation rescues photoreceptor degeneration induced by a chronic hypoxia-like stress.](#)

Barben M, Ail D, Storti F, Klee K, Schori C, Samardzija M, Michalakakis S, Biel M, Meneau I, Blaser F, Barthelmes D, Grimm C.

Cell Death and Differentiation 2018 Apr; [Epub].

Application: WB, Mouse, Retinal homogenates

- [PD-L1 expression is regulated by hypoxia inducible factor in clear cell renal cell carcinoma.](#)

Ruf M, Moch H, Schraml P.

International Journal of Cancer 2016 Mar; 139(2):396.

Application: WB-Ce, WB-Tr, Human, HK-2, ACHN, SLR25, A704, SLR24, RCC4, 786-O, SLR22, Caki-2, A498, RCC4 cells

- [Prolyl hydroxylase inhibitors depend on extracellular glucose and hypoxia-inducible factor \(HIF\)-2alpha to inhibit cell death caused by nerve growth factor \(NGF\) deprivation: evidence that HIF-2alpha has a role in NGF-promoted survival of sympathetic neurons.](#)

Lomb DJ, Desouza LA, Franklin JL, Freeman RS.

Molecular Pharmacology 2009 Feb; 75(5):1198.

- [Red wine polyphenols prevent acceleration of neovascularization by angiotensin II in the ischemic rat hindlimb.](#)

Walter A, Etienne-Selloum N, Brasse D, Schleiffer R, Bekaert V, Vanhoutte PM, Beretz A, Schini-Kerth VB.

The Journal of Pharmacology and Experimental Therapeutics 2009 Feb; 329(2):699.

- [Anthracycline chemotherapy inhibits HIF-1 transcriptional activity and tumor-induced mobilization of circulating angiogenic cells.](#)

Lee K, Qian DZ, Rey S, Wei H, Liu JO, Semenza GL.

PNAS 2009 Jan; 106(7):2353.

- [Key role for activin B in cellular transformation after loss of the von Hippel-Lindau tumor suppressor.](#)

Wacker I, Sachs M, Knaup K, Wiesener M, Weiske J, Huber O, Akcetin Z, Behrens J.

Molecular and Cellular Biology 2009 Jan; 29(7):1707.

- [Prolyl hydroxylase inhibition during hyperoxia prevents oxygen-induced retinopathy.](#)

Sears JE, Hoppe G, Ebrahem Q, Anand-Apte B.

PNAS 2008 Dec; 105(50):19898.

Application: WB, Mouse, Mouse eye, retina, Muller cells

Pathway

- [Pathways in cancer](#)
- [Renal cell carcinoma](#)

Disease

- [Altitude Sickness](#)
- [Anoxia](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Polycythemia](#)
- [Retinopathy of Prematurity](#)