

Rabbit HIF-2-alpha Polyclonal Antibody | anti-EPAS1 antibody

Anti-HIF-2-alpha antibody

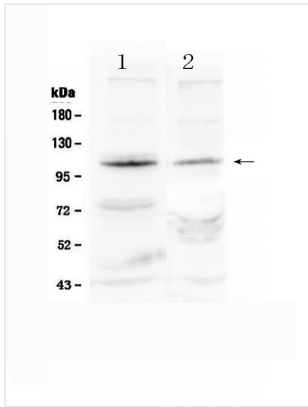
CATALOG # AAA45423	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

HIF-2-alpha; Polyclonal Antibody; Anti-HIF-2-alpha antibody; Endothelial PAS domain-containing protein 1(EPAS-1); endothelial PAS domain protein 1; Basic helix loop helix PAS protein MOP2 antibody; Basic-helix-loop-helix-PAS protein MOP2 antibody; bHLHe73 antibody; Class E basic helix-loop-helix protein 73 antibody; ECYT4 antibody; Endothelial PAS domain containing protein 1 antibody; Endothelial pas domain protein 1 antibody; Endothelial PAS domain-containing protein 1 antibody; EPAS 1 antibody; EPAS-1 antibody; EPAS1 antibody; EPAS1_HUMAN antibody; HIF 1 alpha like factor antibody; HIF 2 alpha antibody; HIF-1-alpha-like factor antibody; HIF-2-alpha antibody; HIF2-alpha antibody; Hif2a antibody; HLF antibody; Hypoxia inducible factor 2 alpha antibody; Hypoxia inducible factor 2 alpha subunit antibody; Hypoxia-inducible factor 2-alpha antibody; Member of PAS protein 2 antibody; Member of pas superfamily 2 antibody; MOP 2 antibody; MOP2 antibody; PAS domain-containing protein 2 antibody; PASD2 antibody; anti-EPAS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	874
Applicable Applications for anti-EPAS1 antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human HIF-2-alpha (282-301aa, HALDSENMTKSHQNLTGQ), identical to the related mouse and rat sequence.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



WB (Western Blot)

Figure 1. Western blot analysis of HIF2A using anti- HIF2A antibody (AAA45423).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat thymus tissue lysates,Lane 2: rat testis tissue lysates,After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- HIF2A antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HIF2A at approximately 110-120KD. The expected band size for HIF2A is at 96KD.

ADDITIONAL INFORMATION

Related Product Information for anti-EPAS1 antibody

Description: Rabbit IgG polyclonal antibody for Endothelial PAS domain-containing protein 1(EPAS1) detection. Tested with WB in Human, Mouse, Rat.

Background: HIF-2 alpha is also designated EPAS1 whose gene is mapped to 2p21-p16. The predicted mouse protein is 88% identical to human EPAS1. The human EPAS1 gene contains 15 exons and spans at least 120 kb. The positions of the introns within the genomic region encoding the N-terminal bHLH-PAS domains of EPAS1 and AHR are similar, suggesting that the 5-prime ends of the 2 genes may have arisen from a gene duplication event¹. Moreover, the predicted protein shares 48% sequence identity with HIF1-alpha, a bHLH-PAS transcription factor that induces EPO gene expression in cultured cells in response to hypoxia. Like HIF1A, EPAS1 binds to and activates transcription from the HIF1A response element derived from the 3-prime flanking region of the EPO gene. EPAS1 is predominantly expressed in highly vascularized tissues of adult humans and in endothelial cells of the mouse adult and embryo. Furthermore, EPAS1 may represent an important regulator of vascularization, perhaps involving the regulation of endothelial cell gene expression in response to hypoxia². HIF2A is expressed at relatively higher levels in villus sections of placenta and in lung samples compared with other tissues examined³. In addition, The variation in EPAS1 influences the relative contribution of aerobic and anaerobic metabolism and hence the maximum sustainable metabolic power for a given event duration.

NCBI AND UNIPROT INFORMATION

NCBI GI #	32469610
NCBI GeneID	29452
UniProt Accession #	Q9JHS1
Molecular Weight	96,718 Da
NCBI Official Full Name	Endothelial PAS domain-containing protein 1
NCBI Official Synonym Full Names	endothelial PAS domain protein 1
NCBI Official Symbol	Epas1
NCBI Official Synonym Symbols	HLF; Hif2a

NCBI Protein Information	endothelial PAS domain-containing protein 1; EPAS-1; HIF2 alpha; HIF2-alpha; HIF-2 alpha; HIF-2-alpha; hypoxia inducible factor 2a; hypoxia-inducible factor 2 alpha; hypoxia-inducible factor 2-alpha; hypoxia inducible factor 2, alpha subunit
UniProt Protein Name	Endothelial PAS domain-containing protein 1
UniProt Gene Name	Epas1
UniProt Synonym Gene Names	Hif2a; EPAS-1; HIF-2-alpha; HIF2-alpha
UniProt Entry Name	EPAS1_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/hif-2-alpha-antibody-western-blot-elisa/45423>