

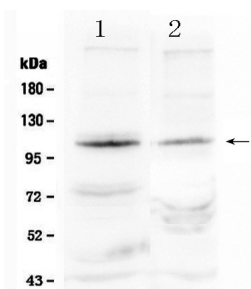


Rabbit polyclonal antibody to Hypoxia-inducible factor-2 alpha (282-301): Affinity purified

Catalogue No.:	R-1786-100
Description:	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 (Reference: uniprot.org).
Related products:	R-1122-100
Batch No.:	See product label.
Unit size:	100 µg
Antigen:	A synthetic peptide (HALDSENMTKSHQNLCTKG) corresponding to a peptide sequence in the middle region (282-301) from human Hypoxia-inducible factor-2 alpha. This sequence is identical to rat and mouse HIF2A.
Sequence:	HALDSENMTKSHQNLCTKG
Antibody Type:	Rabbit polyclonal.
Other Names:	Endothelial PAS domain-containing protein 1; EPAS-1; Hypoxia-inducible factor 2 alpha; HIF-2 alpha; HIF2 alpha; Epas1; Hif2a;
Accession:	Q99814 EPAS1_HUMAN;
Produced in:	Rabbit
Purity:	Affinity purified on antigen column
Applications:	Western Blotting (WB). A concentration of 0.1-0.5 µg/mL is recommended for WB. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	Detects HIF2A by Western Blotting in tissue homogenates.
Species Against:	Human.
Cross-reactivity:	Rat. Expected to react with mouse HIF2A due to immunogen sequence homology.
Form:	Lyophilised with 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05 mg NaN ₃ .
Reconstitution:	Reconstitute in 100 µL of sterile distilled water to achieve an antibody concentration of 1 mg/mL. Centrifuge to remove any insoluble material.
Storage:	Store lyophilised antibody at 2-8°C. After reconstitution, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.
Expiry Date:	12 months after purchase if stored lyophilised.

FOR RESEARCH USE ONLY

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Western blot analysis of HIF2A expression in rodent samples using R-1786-100. Lane 1: rat thymus tissue lysate (50 µg), Lane 2: rat testis tissue lysate (50 µg). The expected band size for HIF2A is 96 kD, but might run slower on SDS-PAGE due to post-translational modifications.

Method: SDS-PAGE: denaturing and reducing, 5-20% gel; Membrane: nitrocellulose; Blocking: 5% skim milk in TBST, 1.5 hours at RT; Primary antibody: overnight at 4°C (0.5 µg/mL); Secondary antibody: anti-rabbit-HRP (1/10000), 1.5 hours at RT; Detection: Chemiluminiscence.

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