

Product datasheet

Anti-HIF3 alpha/IPAS antibody ab176464

1 References 1 Image

Overview

Product name	Anti-HIF3 alpha/IPAS antibody
Description	Rabbit polyclonal to HIF3 alpha/IPAS
Host species	Rabbit
Specificity	No cross reactivity with other proteins.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Rat Predicted to work with: Human 
Immunogen	Synthetic peptide corresponding to Human HIF3 alpha/IPAS aa 497-514 (C terminal). Sequence: DDDFQLNASEQLPRAYHR Database link: Q9Y2N7  Run BLAST with  Run BLAST with
Positive control	Rat brain tissue lysate
General notes	Previously labelled as HIF3 alpha.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab176464** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.1 - 0.5 µg/ml. Predicted molecular weight: 72 kDa.

Target

Function	Involved in adaptive response to hypoxia. Suppresses hypoxia-inducible expression of HIF1A and EPAS1. Binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters. The complex HIF3A-ARNT activates the transcription of reporter genes driven by HRE. Isoform 4 has a dominant-negative function of inactivating HIF1A-mediated transcription. Isoform 4 attenuates the binding of HIF1A to hypoxia-responsive elements (HRE), thus inhibiting HRE-driven transcription. Hypoxia induces down-regulation of isoform 4, leading to activation of HIF1A in hypoxia. Conversely, upon restoring normoxia, the expression of isoform 4 increases and thereby secure an inhibition of HIF1A activity. Isoform 4 may be a negative regulator of hypoxia-inducible gene expression in the kidney and may be involved in renal tumorigenesis. Functions as an inhibitor of angiogenesis in the cornea.
Tissue specificity	Expressed in kidney. Expressed abundantly in lung epithelial cells. Expression is regulated in an oxygen-dependent manner.
Sequence similarities	Contains 1 basic helix-loop-helix (bHLH) domain. Contains 2 PAS (PER-ARNT-SIM) domains.
Post-translational modifications	In normoxia, hydroxylated on Pro-492 in the oxygen-dependent degradation domain (ODD) by PHD. The hydroxylated proline promotes interaction with VHL, initiating rapid ubiquitination and subsequent proteasomal degradation.
Cellular localization	Nucleus. Cytoplasm. In the nuclei of all periportal and perivenous hepatocytes. In the distal perivenous zone, detected in the cytoplasm of the hepatocytes.

Images



Anti-HIF3 alpha/IPAS antibody (ab176464) at 0.1 µg/ml + Rat brain tissue lysate

Predicted band size: 72 kDa

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