




Anti-HIF3 alpha/IPAS antibody ab2165

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Overview

Product name	Anti-HIF3 alpha/IPAS antibody
Description	Rabbit polyclonal to HIF3 alpha/IPAS
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse Predicted to work with: Rat 
Immunogen	Synthetic peptide corresponding to Rabbit HIF3 alpha/IPAS aa 581-592 conjugated to keyhole limpet haemocyanin. Sequence: EIKPPKRSPRLE <div>  Run BLAST with  Run BLAST with </div>
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab2165 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		1/1600. Detects a band of approximately 72 kDa (predicted molecular weight: 72 kDa).
IHC-P		Use at an assay dependent concentration. PubMed: 23451260

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.

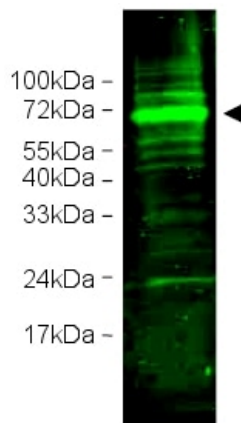
Post-translational modifications

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



Western blot - Anti-HIF3 alpha/IPAS antibody (ab2165)

Anti-HIF3 alpha/IPAS antibody (ab2165) at 1/1600 dilution + 3T3 lysate treated with Cobalt (II) chloride at 10 µg/ml

Secondary

Goat-anti-Rabbit at 1/10000 dilution

Predicted band size: 72 kDa

Observed band size: 72 kDa

Additional bands at: 24 kDa, 55 kDa. We are unsure as to the identity of these extra bands.

Exponentially growing 3T3 cells were treated with 130µM CoCl₂ for 6 hours at 37°C to mimic hypoxia. A clear band at ~ 72kDa is detected in this lysate although some weaker background staining is also seen.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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