

Datasheet for ABIN3042875
anti-HIF3A antibody (C-Term)



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1 Image

Overview

Quantity:	100 µg
Target:	HIF3A
Binding Specificity:	AA 497-514, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HIF3A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-HIF3/HIF3A Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human HIF3, different from the related rat and mouse sequences by five amino acids.
Sequence:	DDDFQLNASE QLPRAYHR
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-HIF3/HIF3A Antibody (ABIN3042875). Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: HIF3A

Alternative Name: HIF3A ([HIF3A Products](#))

Background: Synonyms: Hypoxia-inducible factor 3-alpha ,HIF-3-alpha ,HIF3-alpha,Basic-helix-loop-helix-PAS protein MOP7,Class E basic helix-loop-helix protein 17,bHLHe17,HIF3-alpha-1,Inhibitory PAS domain protein,IPAS,Member of PAS protein 7,PAS domain-containing protein 7,HIF3A ,BHLHE17, MOP7, PASD7,

Tissue Specificity: Expressed in vascular cells (at protein level) (PubMed:21069422). Expressed in kidney (PubMed:11573933, PubMed:19694616). Expressed in lung epithelial cells (PubMed:16775626). Expressed in endothelial cells (venous and arterial cells from umbilical cord and aortic endothelial cells) and in vascular smooth muscle cells (aorta) (PubMed:21069422). Strongly expressed in the heart, placenta, and skeletal muscle, whereas a weak expression profile was found in the lung, liver, and kidney (PubMed:12538644). Expressed weakly in cell renal cell carcinoma (CC-RCC) compared to normal renal cells (PubMed:16126907). Expression is down-regulated in numerous kidney tumor cells compared to non tumor kidney tissues (PubMed:16126907). Isoform 2 is expressed in heart, placenta, lung, liver, skeletal muscle and pancreas and in numerous cancer cell lines (PubMed:20416395). Isoform 3 and isoform 4 are weakly expressed in heart, placenta, lung, liver, skeletal muscle and pancreas (PubMed:20416395). Isoform 4 is expressed in fetal tissues, such as heart, brain, thymus, lung, liver, skeletal kidney and spleen (PubMed:20416395). . Isoform 3 is weakly expressed in fetal tissues, such as liver and kidney (PubMed:20416395). .

Background: Hypoxia-inducible factor 3 alpha, also called MOP7, is a protein that in humans is encoded by the HIF3A gene. HIF3A is mapped to 19q13.32. This gene involved in adaptive response to hypoxia. HIF3A suppresses hypoxia-inducible expression of HIF1A and EPAS1. It 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. This gene functions as an inhibitor of angiogenesis in the cornea.

Sequence Similarities: Contains 1 bHLH (basic helix-loop-helix) domain.

Molecular Weight: 49 kDa

UniProt: [Q9Y2N7](#)

Pathways: [Warburg Effect](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Rat, Human

1. Hara, S., Hamada, J., Kobayashi, C., Kondo, Y., Imura, N. Expression and characterization of hypoxia-inducible factor (HIF)-3- α in human kidney: suppression of HIF-mediated gene expression by HIF-3- α . Biochem. Biophys. Res. Commun. 287: 808-813, 2001. 2. Maynard, M. A., Qi, H., Chung, J., Lee, E. H. L., Kondo, Y., Hara, S., Conaway, R. C., Conaway, J. W., Ohh, M. Multiple splice variants of the human HIF-3- α locus are targets of the von Hippel-Lindau E3 ubiquitin ligase complex. J. Biol. Chem. 278: 11032-11040, 2003.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Expiry Date: 12 months



Western Blotting

Image 1. Anti-HIF3 antibody, Western blotting WB: Rat Brain Tissue Lysate