

Datasheet for ABIN7601137
anti-HIF3A antibody (AA 29-480)



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Overview

Quantity:	100 µg
Target:	HIF3A
Binding Specificity:	AA 29-480
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HIF3A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-HIF3/HIF3A Antibody Picoband®
Immunogen:	E.coli-derived human HIF3/HIF3A recombinant protein (Position: Q29-Q480).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-HIF3/HIF3A Antibody Picoband® (ABIN7601137). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, 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.
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). Expressed in kidney. Expressed in lung epithelial cells. Expressed in endothelial cells (venous and arterial cells from umbilical cord and aortic endothelial cells) and in vascular smooth muscle cells (aorta). Strongly expressed in the heart, placenta, and skeletal muscle, whereas a weak expression profile was found in the lung, liver, and kidney. Expressed weakly in cell renal cell carcinoma (CC-RCC) compared to normal renal cells. Expression is down-regulated in numerous kidney tumor cells compared to non tumor kidney tissues. Isoform 2 is expressed in heart, placenta, lung, liver, skeletal muscle and pancreas and in numerous cancer cell lines. Isoform 3 and isoform 4 are weakly expressed in heart, placenta, lung, liver, skeletal muscle and pancreas. Isoform 4 is expressed in fetal tissues, such as heart, brain, thymus, lung, liver, skeletal kidney and spleen. Isoform 3 is weakly expressed in fetal tissues, such as liver and kidney. 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.
Molecular Weight:	72 kDa
Gene ID:	64344
UniProt:	Q9Y2N7
Pathways:	Warburg Effect

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Hara, S., Hamada, J., Kobayashi, C., Kondo, Y., Imura, N. Expression and characterization of
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Application Details

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.

Restrictions: For Research Use only

Handling

Format: Lyophilized

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

Concentration: 500 μ g/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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.