

Datasheet for ABIN100475

anti-HIF3A antibody (AA 575-600)



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Overview

Quantity:	100 µg
Target:	HIF3A
Binding Specificity:	AA 575-600
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HIF3A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Hif3 alpha Antibody
Immunogen:	<p>Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near aa 575-600 of mouse Hif3 a (Hypoxia Inducible Factor).</p> <p>Immunogen Type: Conjugated Peptide</p>
Isotype:	IgG
Cross-Reactivity (Details):	This affinity-purified antibody is directed against mouse Hif3alpha protein.
Characteristics:	<p>Synonyms: rabbit anti-Hif3a antibody, Hif3 alpha antibody, Hif3α antibody, Hypoxia Inducible Factor 3-alpha antibody, Hypoxia inducible factor 3 alpha subunit antibody, Inhibitory PAS domain protein antibody, IPAS antibody, HIF-3-alpha, Basic-helix-loop-helix-PAS protein MOP7, HIF3-alpha-1, Neonatal and embryonic PAS protein</p>

Product Details

Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered

Target Details

Target:	HIF3A
Alternative Name:	Hif3a (HIF3A Products)
Background:	<p>Background: One of the most important factors in the cellular response to hypoxia is hypoxia-inducible factor (HIF), which transcriptionally activates genes encoding proteins that mediate adaptive responses to reduced oxygen availability. HIF is a member of the basic helix-loop-helix (bHLH) superfamily, in which the HLH domain mediates subunit dimerization while the basic domain binds to DNA. HIF binds to the hypoxia-responsive elements (HRE) located within the enhancer/promoter of hypoxia-inducible target genes and hence inhibits HRE-driven transcriptional activation. HIF target genes play critical roles in metabolism, angiogenesis, cell proliferation, and cell survival, in fact, HIF3-a may be a marker for tumor growth and apoptosis. Hif3 may participate in disorders with the cornea, lung, and heart. Anti-Hif3 alpha Antibody is useful for researchers interested in transcription factors, DNA binding, and Epilepsy research.</p>
Gene ID:	53417, 170295859
UniProt:	Q0VBL6
Pathways:	Warburg Effect

Application Details

Application Notes:	<p>Application Note: This affinity-purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 72 kDa in size corresponding to Hif3 alpha protein by western blotting in the appropriate cell lysate or extract. This antibody is expected to cross-react with mouse and rat Hif3 alpha due to sequence homology.</p> <p>Western Blot Dilution: 1:1,000 - 1:8,000</p> <p>ELISA Dilution: 1:14,000 - 1:80,000</p> <p>Other: User Optimized</p>
Restrictions:	For Research Use only

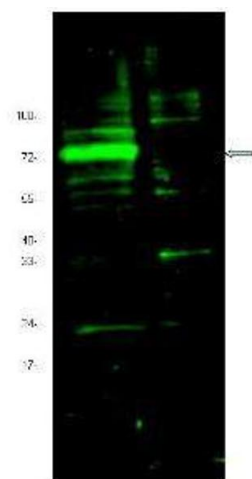
Handling

Format:	Liquid
Concentration:	1.2 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) 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 vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Publications

Product cited in:	Takeda, Ho, Takeda, Duan, Nagy, Fong: "Placental but not heart defects are associated with elevated hypoxia-inducible factor alpha levels in mice lacking prolyl hydroxylase domain protein 2." in: Molecular and cellular biology , Vol. 26, Issue 22, pp. 8336-46, (2006) (PubMed).
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Images



Western Blotting

Image 1. Western blot using Affinity Purified anti-Hif antibody shows detection of a band ~72 kDa corresponding to mouse Hif3a (arrowhead). Approximately 10 µg of a CoCl₂ treated 3T3 cell lysate (lane 1) and control 3T3 cell lysate (lane 2) were separated by 4-20% SDS-PAGE and transferred onto nitrocellulose. Treatment of exponentially growing 3T3 cells with 130 µM CoCl₂ for 6 h at 37° C effectively mimics hypoxia. After blocking the membrane

was probed overnight at 4° C with the primary antibody diluted to 1:1,600. The membrane was washed and reacted with a 1:10,000 dilution of IRDye800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature. IRDye800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.