

Datasheet for ABIN3043841 anti-HIF1A antibody (C-Term)

5 Images

33 Publications



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Overview

Quantity:	100 µg
Target:	HIF1A
Binding Specificity:	AA 703-732, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HIF1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Hypoxia-inducible factor 1-alpha(HIF1A) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminal of human HIF-1-alpha (703-732aa EEELNPKILALQNAQRKRKMEHDGSLFQAV), different from the related mouse and rat sequences by three amino acids.
Sequence:	EEELNPKILA LQNAQRKRKM EHDGSLFQAV
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Hypoxia-inducible factor 1-alpha(HIF1A) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription

Product Details

factor)

Protein Name: Hypoxia-inducible factor 1-alpha

Purification: Immunogen affinity purified.

Target Details

Target: HIF1A

Alternative Name: HIF1A ([HIF1A Products](#))

Background: HIF-1 α (Hypoxia-inducible factor 1 α , HIF1A) is a transcription factor that mediates cellular and systemic homeostatic responses to reduced O₂ availability in mammals, including angiogenesis, erythropoiesis and glycolysis. This gene was mapped to 14q21-q24. HIF-1 α transactivate genes required for energy metabolism and tissue perfusion and is necessary for embryonic development and tumor explant growth. HIF-1 α is over expressed during carcinogenesis, myocardial infarction and wound healing. It is crucial for the cellular response to hypoxia and is frequently over expressed in human cancers, resulting in the activation of genes essential for cell survival. HIF-1 α regulates the survival and function in the inflammatory microenvironment directly. It is a transcription factor that plays a pivotal role in cellular adaptation to changes in oxygen availability.

Synonyms: ARNT interacting protein antibody|ARNT-interacting protein antibody|Basic helix loop helix PAS protein MOP1 antibody|Basic-helix-loop-helix-PAS protein MOP1 antibody|bHLHe78 antibody|Class E basic helix-loop-helix protein 78 antibody|HIF 1A antibody|HIF 1alpha antibody|HIF-1-alpha antibody|HIF1 A antibody|HIF1 Alpha antibody|HIF1 antibody|HIF1-alpha antibody|HIF1A antibody|HIF1A_HUMAN antibody|Hypoxia inducible factor 1 alpha antibody|Hypoxia inducible factor 1 alpha isoform I.3 antibody|Hypoxia inducible factor 1 alpha subunit antibody|Hypoxia inducible factor 1 alpha subunit basic helix loop helix transcription factor antibody|Hypoxia inducible factor 1, alpha subunit (basic helix loop helix transcription factor) antibody|Hypoxia inducible factor1alpha antibody|Hypoxia-inducible factor 1-alpha antibody|Member of PAS protein 1 antibody|Member of PAS superfamily 1 antibody|Member of the PAS Superfamily 1 antibody|MOP 1 antibody|MOP1 antibody|PAS domain-containing protein 8 antibody|PASD 8 antibody|PASD8 antibody

Gene ID: 3091

UniProt: [Q16665](#)

Pathways: [Positive Regulation of Peptide Hormone Secretion](#), [Regulation of Hormone Metabolic Process](#),

Target Details

[Regulation of Hormone Biosynthetic Process](#), [Cellular Response to Molecule of Bacterial Origin](#), [Carbohydrate Homeostasis](#), [Transition Metal Ion Homeostasis](#), [Tube Formation](#), [Regulation of Carbohydrate Metabolic Process](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [VEGFR1 Specific Signals](#), [Warburg Effect](#)

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, The detection limit for HIF-1-alpha is approximately 0.25 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

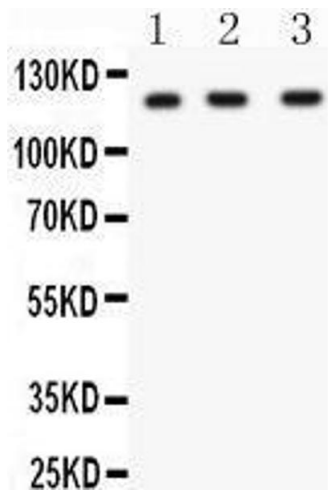
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Li, Zhao, Qi, Wang, Zhang, Li, Qin: "lncRNA Ftx promotes aerobic glycolysis and tumor progression through the PPAR γ pathway in hepatocellular carcinoma." in: **International journal of oncology**, Vol. 53, Issue 2, pp. 551-566, (2018) ([PubMed](#)).

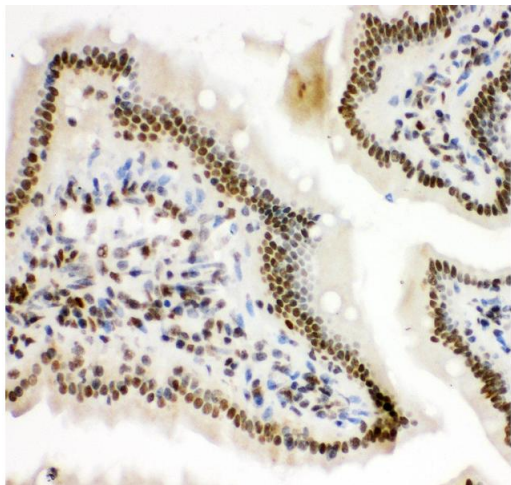
There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Anti- HIF 1 alpha Picoband antibody, Western blotting All lanes: Anti HIF 1 alpha at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: SHG Whole Cell Lysate at 40ug Lane 3: HEPA Whole Cell Lysate at 40ug Predicted bind size: 93KD Observed bind size: 120KD



Immunohistochemistry (Paraffin-embedded Sections)

Image 2.



Western Blotting

Image 3. Anti- HIF 1 alpha Picoband antibody, Western blotting All lanes: Anti HIF 1 alpha at 0.5ug/ml WB: Recombinant Human HIF 1 alpha Protein 0.5ng Predicted bind size: 36KD Observed bind size: 36KD

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043841.