

Mouse HIF1 ALPHA Monoclonal Antibody | anti-HIF1 ALPHA antibody

MOUSE ANTI HUMAN HIF1 ALPHA

CATALOG # AAA49792	HOST Mouse	APPLICATIONS Immunohistochemistry
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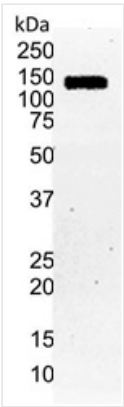
PRODUCT SYNONYMS

HIF1 ALPHA; Monoclonal Antibody; MOUSE ANTI HUMAN HIF1 ALPHA; anti-HIF1 ALPHA antibody

PRODUCT SPECIFICATIONS

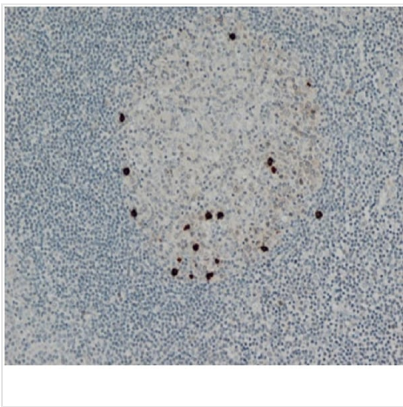
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	Halpa111a
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Sequence Length	850
Applicable Applications for anti-HIF1 ALPHA antibody	IHC (Immunohistochemistry)
Perservative Stabilisers	0.09% Sodium Azide (NaN ₃) Preparation
Histology Positive Control Tissue	Human tonsil Buffer Solution
Target Species	Human
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from the date of despatch.

IMAGES



Application Data

Western blot analysis of K562 erythroleukemic cell line whole cell lysate probed with Mouse anti Human HIF1alpha antibody followed by HRP conjugated Goat anti Mouse IgG secondary antibody, visualized using chemiluminescence



Application Data

Paraffin embedded human tonsil stained with Mouse anti Human HIF1 alpha

ADDITIONAL INFORMATION

Related Product Information for anti-HIF1 ALPHA antibody	Mouse anti Human HIF1 alpha antibody, clone Halpha111a recognizes human Hypoxia-inducible factor 1-alpha otherwise known as HIF1 alpha (HIF1A) or ARNT interacting protein, a widely expressed bHLH-PAS transcription factor, which acts as a critical regulatory protein in the host response to hypoxia (Kubis et al. 2005). HIF1A and HIF1B form the highly-conserved heterodimeric HIF-1 transcriptional complex (Carmeliet et al. 1998). During hypoxic conditions, HIF1A accumulates in the nucleus and activates the transcription of many genes encoding proteins involved in the production of oxygen delivery and metabolic adaptation, such as vascular endothelial growth factor and glucose transporters. Under normal oxygen conditions, HIF1A is targeted by HIF prolyl-hydroxylases, followed by rapid protease degradation, which is inhibited during hypoxia (Hirsilä et al. 2003). Overexpression of HIF1A occurs in many common human cancers, including pancreatic, bladder and renal carcinomas (Shibaji et al. 2003). Mouse anti Human HIF1alpha, clone Halpha111a has been successfully used for the identification of HIF1alpha in human samples by both immunohistochemistry and Western blotting.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	340545531
NCBI GeneID	3091
NCBI Accession #	NP_001230013.1
NCBI GenBank Nucleotide #	NM_001243084.1
UniProt Accession #	Q16665; Q53XP6; Q96PT9; Q9UPB1; C0LZJ3
Molecular Weight	95,634 Da
NCBI Official Full Name	hypoxia-inducible factor 1-alpha isoform 3
NCBI Official Synonym Full Names	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
NCBI Official Symbol	HIF1A
NCBI Official Synonym Symbols	HIF1; MOP1; PASD8; HIF-1A; bHLHe78; HIF-1alpha; HIF1-ALPHA
NCBI Protein Information	hypoxia-inducible factor 1-alpha; ARNT interacting protein; ARNT-interacting protein; HIF-1-alpha; PAS domain-containing protein 8; basic-helix-loop-helix-PAS protein MOP1; class E basic helix-loop-helix protein 78; hypoxia-inducible factor 1 alpha isoform 1.3; hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor); hypoxia-inducible factor1alpha; member of PAS protein 1; member of PAS superfamily 1
UniProt Protein Name	Hypoxia-inducible factor 1-alpha
UniProt Gene Name	HIF1A

UniProt Synonym Gene Names	BHLHE78; MOP1; PASD8; HIF-1-alpha; HIF1-alpha; bHLHe78
UniProt Entry Name	HIF1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/hif1-alpha-antibody-clone-halpha111a-immunohistochemistry-elisa/49792>