HIF1AN recombinant antibody

HIF1AN Recombinant Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA278971	**HEK293F Cell**	**Human**	**Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot, ELISA**

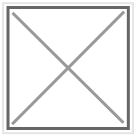
PRODUCT SYNONYMS

HIF1AN; Monoclonal Recombinant Antibody; HIF1AN Recombinant Monoclonal Antibody; Hypoxia-inducible factor 1-alpha inhibitor (EC 1.14.11.30)(EC 1.14.11.n4)(Factor inhibiting HIF-1)(FIH-1)(Hypoxia-inducible factor asparagine hydroxylase); FIH1; HIF1AN recombinant antibody

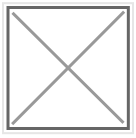
PRODUCT SPECIFICATIONS

Host	HEK293F Cell
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	12F11
Purity/Purification	Affinity purified
Form/Format	Liquid; PBS, 150mM NaCl, 0.02% sodium azide, 50% glycerol, pH 7.4.
Applicable Applications for HIF1AN recombinant antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen Species	Human
Immunogen	A synthesized peptide derived from Human HIF1AN
Conjugation	Non-conjugated
Research Area	Epigenetics and Nuclear Signaling; Cancer; Cardiovascular
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

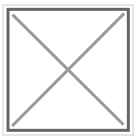
IMAGES



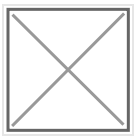
FCM/FACS (Flow Cytometry)
Overlay Peak curve showing Hela cells stained with AAA278971 (red line) at 1:100. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*106cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1ug/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.



IF (Immunofluorescence)
Immunofluorescence staining of HepG2 cell with AAA278971 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 525-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IHC (Immunohistochemisry)
IHC image of AAA278971 diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.



IHC (Immunohiostchemistry)
IHC image of AAA278971 diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.

WB (Western Blot)
Western BlotPositive WB detected in: Ntera-2 whole cell lysate, Hela whole cell lysate, A549 whole cell lysate, HepG2 whole cell lysate, PC3 whole cell lysate, U87 whole cell lysateAll lanes: HIF1AN antibody at 1:2000SecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 41 kDaObserved band size: 36-53 kDa

ADDITIONAL INFORMATION

Related Product Information for HIF1AN recombinant antibody	Hydroxylates HIF-1 alpha at 'Asn-803' in the C-terminal transactivation domain (CAD). Functions as an oxygen sensor and, under normoxic conditions, the hydroxylation prevents interaction of HIF-1 with transcriptional coactivators including Cbp/p300-interacting transactivator. Involved in transcriptional repression through interaction with HIF1A, VHL and histone deacetylases. Hydroxylates specific Asn residues within ankyrin repeat domains (ARD) of NFKB1, NFKBIA, NOTCH1, ASB4, PPP1R12A and several other ARD-containing proteins. Also hydroxylates Asp and His residues within ARDs of ANK1 and TNKS2, respectively. Negatively regulates NOTCH1 activity, accelerating myogenic differentiation. Positively regulates ASB4 activity, promoting vascular differentiation. {ECO:0000269|PubMed:12042299, ECO:0000269|PubMed:12080085, ECO:0000269|PubMed:17003112, ECO:0000269|PubMed:17573339, ECO:0000269|PubMed:18299578, ECO:0000269|PubMed:19245366, ECO:0000269|PubMed:21177872, ECO:0000269|PubMed:21251231}.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148596936
NCBI GeneID	55662
NCBI Accession #	NP_060372.2
NCBI GenBank Nucleotide #	NM_017902.2
UniProt Accession #	Q9NWT6; Q5W147; Q969Q7; Q9NPV5; D3DR69
Molecular Weight	40,285 Da
NCBI Official Full Name	hypoxia-inducible factor 1-alpha inhibitor
NCBI Official Synonym Full Names	hypoxia inducible factor 1, alpha subunit inhibitor
NCBI Official Symbol	HIF1AN
NCBI Official Synonym Symbols	FIH1
NCBI Protein Information	hypoxia-inducible factor 1-alpha inhibitor; FIH-1; factor inhibiting HIF-1; factor inhibiting HIF1; hypoxia-inducible factor asparagine hydroxylase; peptide-aspartate beta-dioxygenase
UniProt Protein Name	Hypoxia-inducible factor 1-alpha inhibitor
UniProt Gene Name	**HIF1AN**
UniProt Synonym Gene Names	FIH1; FIH-1

UniProt Entry Name	HIF1N_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/hif1an-recombinant-antibody-clone-12f11-flow-cytometry-immunofluorescence-immunohistochemistry-western-blot-elisa/278971