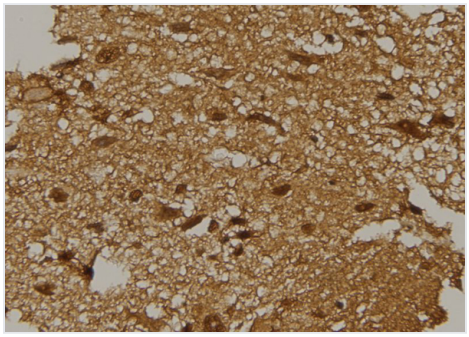
HIF1AN Antibody – Rabbit Polyclonal

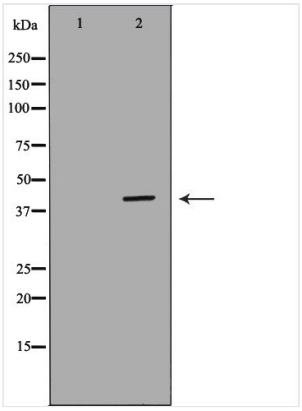
PRODUCT OVERVIEW

Product Name	HIF1AN, Polyclonal Antibody
Full Product Name	HIF1AN Antibody
Product Gene Name	anti-HIF1AN antibody
Product Synonym Names	DKFZp762F1811; Factor inhibiting HIF-1; Factor inhibiting HIF1; FIH 1; FIH-1; FIH1; FLJ20615; FLJ22027; HIF1AN; HIF1N_HUMAN; Hypoxia inducible factor 1 alpha inhibitor; Hypoxia inducible factor 1 alpha subunit inhibitor; Hypoxia inducible factor asparagine hydroxylase; Hypoxia-inducible factor 1-alpha inhibitor; Hypoxia-inducible factor asparagine hydroxylase; Peptide aspartate beta dioxygenase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	HIF1AN antibody detects endogenous levels of total HIF1AN
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	HIF1AN peptide (MBS9626703) is used for blocking the activity of HIF1AN antibody (MBS9607991)
Molecular Weight	Observed: 40 kDa Predicted: 41 kDa
3D Structure	ModBase 3D Structure for Q9NWT6
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human HIF1AN
Subcellular Location	Nucleus.
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (100%), Zebrafish (83%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (92%), Xenopus (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HIF1AN antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-HIF1AN antibody	WB: 1:500-1:2000 IHC: 1:50-1:200

Related Product Information for anti-HIF1AN antibody	Function: 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. Subunit Structure: Homodimer; homodimerization is essential for catalytic activity. Interacts with VHL and HIF1A. Part of a complex with VHL, HIF1A and HDAC1 or HDAC2 or HDAC3. Interacts with NFKB1 and NFKBIA. Interacts with NOTCH1, NOTCH2 and NOTCH3 but not with NOTCH4. Interacts with APBA3; binding inhibits HIF1AN binding to HIF1A. Interacts with TNKS2. Interacts with PPP1R12A. Interacts with ASB4 (By similarity). Interacts with UBE3A. Interacts with ANKS3 (By similarity). Interacts with NECAB3; the interaction is indirect and seems to be mediated by APBA3.
Other Notes	Small volumes of anti-HIF1AN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HIF1AN purchase	MBS9607991 is an antibody targeting HIF1AN. Also known as HIF1AN Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-HIF1AN antibody
MBS9607991 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blot (WB) of anti-HIF1AN antibody
Western blot analysis of K562 whole cell lysates, using HIF1AN Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIF1AN. It may not necessarily be applicable to this product.

NCBI GI #	148596936
NCBI GeneID	55662
NCBI Accession #	NP_060372.2
UniProt Primary Accession #	Q9NWT6
UniProt Secondary Accession #	Q5W147; Q969Q7; Q9NPV5; D3DR69
UniProt Related Accession #	Q9NWT6
GenBank Nucleotide #	NM_017902.2
NCBI Official Full Name	hypoxia-inducible factor 1-alpha inhibitor
NCBI Official Synonym Full Names	hypoxia inducible factor 1 subunit alpha inhibitor
NCBI Official Symbol	HIF1AN
NCBI Official Synonym Symbols	FIH1
UniProt Protein Name	Hypoxia-inducible factor 1-alpha inhibitor

UniProt Synonym Protein Names	Factor inhibiting HIF-1; FIH-1; Hypoxia-inducible factor asparagine hydroxylase
Protein Family	Hypoxia-inducible factor 1-alpha inhibitor
UniProt Gene Name	HIF1AN
UniProt Synonym Gene Names	FIH1; FIH-1
NCBI Protein Information	hypoxia-inducible factor 1-alpha inhibitor
UniProt Comments for HIF1AN	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.
Research Articles on HIF1AN	**1.** Authors identified KANK3 as a new substrate for the oxygen sensor hypoxia-inducible factor 1-alpha inhibitor (HIF1AN), which hydroxylates HIF-1/2alpha and other ankyrin repeat domain-containing proteins at asparagine residues.
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