

Rabbit HIF1AN Polyclonal Antibody | anti-HIF1AN antibody

HIF1AN Antibody

CATALOG # AAA327055	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

HIF1AN; Polyclonal Antibody; HIF1AN Antibody; DKFZp762F1811; Factor inhibiting HIF-1; Factor inhibiting HIF1; FIH 1; FIH-1; FIH1; FLJ20615; FLJ22027; 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; anti-HIF1AN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	HIF1AN antibody detects endogenous levels of total HIF1AN
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	349
Applicable Applications for anti-HIF1AN antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
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
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

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



IHC (Immunohistochemistry)

AAA327055 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.

ADDITIONAL INFORMATION

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.
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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	Observed: 40 kDa Predicted: 41 kDa
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
NCBI Protein Information	hypoxia-inducible factor 1-alpha inhibitor
UniProt Protein Name	Hypoxia-inducible factor 1-alpha inhibitor
UniProt Gene Name	HIF1AN
UniProt Synonym Gene Names	FIH1; FIH-1

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.