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HIF1AN Antibody

Rabbit mAb
Catalog # AP91867

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	Q9NWT6
Reactivity	Human
Clonality	Monoclonal
Other Names	FIH 1; FIH1; HIF1AN;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	40285

Additional Information

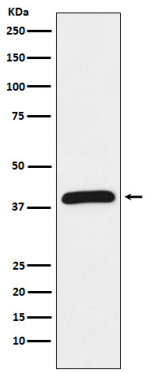
Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:80
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human HIF1AN
Description	Hydroxylates HIF-1 alpha at 'Asp-803' in the C-terminal transactivation domain (CAD). Functions as an oxygen sensor and, under normoxic conditions, the hydroxylation prevents interaction of HIF-1 with transcriptional coactivators including Cbp/p300-interacting transactivator.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	HIF1AN
Synonyms	FIH1
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.
Cellular Location	Nucleus. Cytoplasm. Cytoplasm, perinuclear region. Note=Mainly cytoplasmic

localization, but interaction with NOTCH1 results in nuclear localization and interaction with ABPA3 results in perinuclear localization in macrophages

Images



Western blot analysis of HIF1AN expression in Jurkat cell lysate.

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