

HIF1AN Recombinant Rabbit mAb

Catalog # AP96657

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q5W147
Other Accession	Q5W147
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	40 KDa
Physical State	Liquid
Immunogen	A synthesized peptide derived from human HIF 1 alpha inhibitor
Epitope Specificity	1-58/349
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Contains 1 JmjC domain.
SUBUNIT	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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	55662
Other Names	FIH1; Q5W147_HUMAN; HIF1N_HUMAN; HIF1AN; Factor inhibiting HIF-1 (FIH-1); Hypoxia-inducible factor asparagine hydroxylase; 1.14.11.30; 1.14.11.n4; hypoxia inducible factor 1 subunit alpha inhibitor; Peptide-aspartate beta-dioxygenase
Dilution	WB=1:500-2000, IHC-P=1:200-500, IHC-F=1:200-500, ICC/IF=1:100-200, IF=1:200-500, Flow-Cyt=1 ug/test

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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Protein Information

Name	HIF1AN Recombinant Rabbit mAb
Function	Hydroxylates HIF-1 alpha at 'Asp-803' in the C-terminaltransactivation domain (CAD). Functions as an oxygen sensor and,under normoxic conditions, the hydroxylation prevents interactionof HIF-1 with transcriptional coactivators includingCbp/p300-interacting transactivator. Involved in transcriptionalrepression through interaction with HIF1A, VHL and histonedacetylases. Hydroxylates specific Asn residues within ankyrinrepeat domains (ARD) of NFKB1, NFKBIA, NOTCH1, ASB4, PPP1R12A andseveral other ARD-containing proteins. Also hydroxylates Asp andHis residues within ARDs of ANK1 and TNKS2, respectively.Negatively regulates NOTCH1 activity, accelerating myogenicdifferentiation. Positively regulates ASB4 activity, promotingvascular differentiation.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.