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HIF1AN Mouse mAb

Catalog # AP96538

Product Information

Application	WB
Primary Accession	Q5W147
Other Accession	Q5W147
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	38 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HIF1AN
Epitope Specificity	1-349/349
Isotype	IgG1, k
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 JmjC domain.
SUBUNIT	Homodimer; homodimerization is essential for catalyticactivity. 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	HIF1AN (Hypoxia inducible factor 1 alpha inhibitor) is a corepressor that interacts with hypoxia inducible factor 1 (HIF1) alpha and the von Hippel Lindau tumor suppressor protein to mediate repression of HIF1 transcriptional activity.

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=1:1000-5000
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.

Protein Information

Name	HIF1AN Mouse 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 histonedeacetylases. 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'.