

KD-Validated Anti-HIF1AN Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1564

Product Information

Application	WB, FC, ICC
Primary Accession	Q9NWT6
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB6385
Calculated MW	40285
Gene Name	HIF1AN
Aliases	HIF1AN; Hypoxia Inducible Factor 1 Subunit Alpha Inhibitor; FIH1; Hypoxia-Inducible Factor Asparagine Hydroxylase; Hypoxia-Inducible Factor 1-Alpha Inhibitor; Peptide-Aspartate Beta-Dioxygenase; Factor Inhibiting HIF-1; FLJ20615; FLJ22027; FIH-1; Hypoxia Inducible Factor 1 Alpha Subunit Inhibitor; Factor Inhibiting HIF1; DKFZp762F1811; DKFZP762F1811; EC 1.14.11.30; EC 1.14.11.N4
Immunogen	A synthesized peptide derived from human HIF1AN

Additional Information

Gene ID	55662
Other Names	Hypoxia-inducible factor 1-alpha inhibitor, 1.14.11.30, 1.14.11.n4, Factor inhibiting HIF-1, FIH-1, Hypoxia-inducible factor asparagine hydroxylase, HIF1AN, FIH1

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

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