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HIF1AN Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1029b

Product Information

Application	WB, E
Primary Accession	Q9NWT6
Other Accession	Q8BLR9, P59723
Reactivity	Human, Mouse
Predicted	Zebrafish
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB10747
Calculated MW	40285
Antigen Region	286-316

Additional Information

Gene ID	55662
Other Names	Hypoxia-inducible factor 1-alpha inhibitor, 11411n4, Factor inhibiting HIF-1, FIH-1, Hypoxia-inducible factor asparagine hydroxylase, HIF1AN, FIH1
Target/Specificity	This HIF1AN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 286-316 amino acids from the C-terminal region of human HIF1AN.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HIF1AN Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

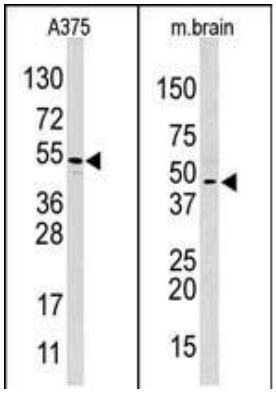
Name	HIF1AN
Synonyms	FIH1

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

Background

FIH1Encoded protein (factor inhibiting HIF-1)is a co-repressor that interacts with hypoxia-inducible factor 1(HIF-1) alpha and the von Hippel-Lindau tumor suppressor protein to mediate repression of HIF-1 transcriptional activity.

Images



Western blot analysis of anti-HIF1AN (C-term) Pab in A375 and mouse brain cell line lysate. HIF1AN (C-term)(arrow) was detected using the purified Pab.

Citations

- Dickkopf-related protein 3 alters aerobic glycolysis in pancreatic cancer BxPC-3 cells, promoting CD4 T-cell activation and function
- miR-148a-3p Mediates Notch Signaling to Promote the Differentiation and M1 Activation of Macrophages.