

HIF1AN Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1029a

Specification

HIF1AN Antibody (N-term) - Product Information

| | |
|-------------------|------------------------|
| Application | WB,E |
| Primary Accession | O9NWT6 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 40285 |
| Antigen Region | 23-54 |

HIF1AN Antibody (N-term) - 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 23-54 amino acids from the N-terminal region of human HIF1AN.

Dilution

WB~~1:1000

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 (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HIF1AN Antibody (N-term) - 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

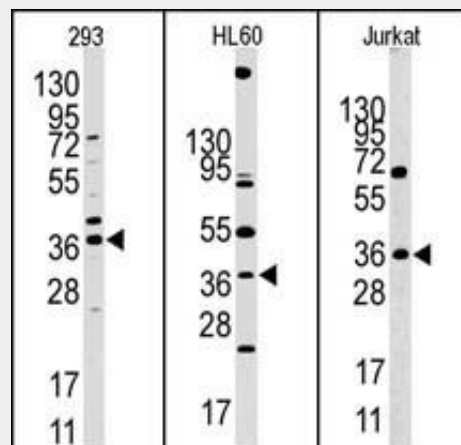
Nucleus. Cytoplasm. Cytoplasm, perinuclear region. Note=Mainly cytoplasmic localization, but interaction with NOTCH1 results in nuclear localization and interaction with ABPA3 results in perinuclear localization in macrophages

HIF1AN Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HIF1AN Antibody (N-term) - Images



Western blot analysis of anti-HIF1AN (N-term) Pab in 293, HL60 and Jurkat cell line lysates. HIF1AN (N-term)(arrow) was detected using the purified Pab.

HIF1AN Antibody (N-term) - 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.