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HIF1AN antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11526

Specification

HIF1AN antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q9NWT6
Other Accession	NM_017902, NP_060372
Reactivity	**Human, Rabbit, Pig, Horse**
Predicted	**Human, Rabbit, Horse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**40kDa KDa**

HIF1AN antibody - N-terminal region - Additional Information

Gene ID 55662

Alias Symbol	**FIH1**

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

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-HIF1AN antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
HIF1AN antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

HIF1AN antibody - N-terminal region - 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.

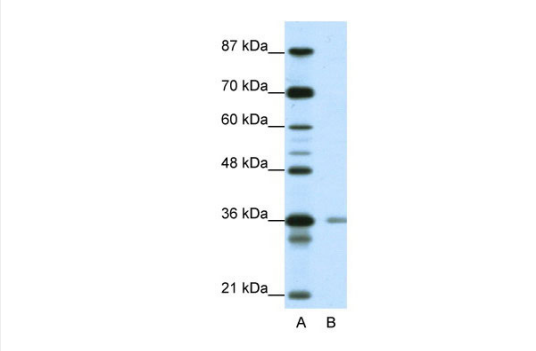
Cellular Location
Nucleus. Cytoplasm. Cytoplasm, perinuclear region. Note=Mainly cytoplasmic localization, but interaction with NOTCH1 results in nuclear localization and interaction with ABPA3 results in perinuclear localization in macrophages

HIF1AN antibody - N-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HIF1AN antibody - N-terminal region - Images



WB Suggested Anti-HIF1AN Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: Jurkat cell lysate

HIF1AN antibody - N-terminal region - References

Linke,S., et al., (2004) J. Biol. Chem. 279 (14), 14391-14397Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.