

**[KO Validated] HIF1AN/FIH1 polyclonal antibody**

Catalog: BS7590

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

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.

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

40kDa

Swiss-Prot:

Q9NWT6

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB,1:500 - 1:2000|IF/ICC,1:50 - 1:200|IP,1:50 - 1:200

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Category:

Polyclonal Antibodies

DATA:

Western blot analysis of extracts of various cell lines, using HIF1AN/FIH1 antibody at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit .
Exposure time: 30s.

Western blot analysis of extracts from normal and HIF1AN/FIH1 Rabbit pAb knockout 293T cells, using HIF1AN/FIH1 Rabbit pAb antibody at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit .
Exposure time: 10s.

Immunofluorescence analysis of L929 cells using HIF1AN/FIH1 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

Immunoprecipitation analysis of 200ug extracts of 293T cells using 1ug HIF1AN/FIH1 antibody . Western blot was performed from the immunoprecipitate using HIF1AN/FIH1 antibody at a dilution of 1:1000.

Note:

For research use only, not for use in diagnostic procedure.

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