Product Datasheet

HIF1AN Rabbit mAb

Catalog No: #49920

Package Size: #49920-1 50ul #49920-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

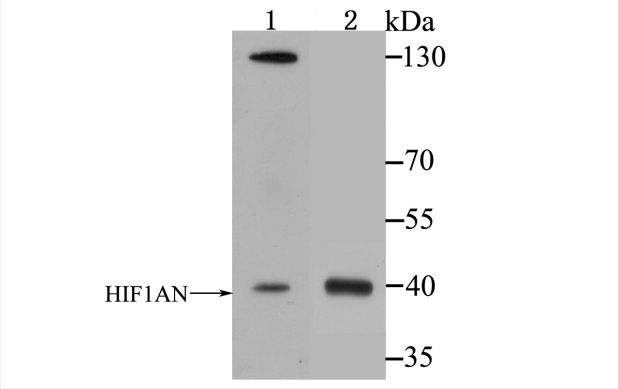
Description

Product Name	HIF1AN Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JG37-66
Purification	ProA affinity purified
Applications	WB,ICC,IHC,FC
Species Reactivity	Hu
Immunogen Description	Recombinant protein within human HIF1AN aa 1-200.
Other Names	DKFZp762F1811 antibody Factor inhibiting HIF-1 antibody Factor inhibiting HIF1 antibody FIH 1 antibody FIH-1 antibody FIH1 antibody FLJ20615 antibody FLJ22027 antibody HIF1AN antibody HIF1N_HUMAN antibody Hypoxia inducible factor 1 alpha inhibitor antibody Hypoxia inducible factor 1 alpha subunit inhibitor antibody Hypoxia inducible factor asparagine hydroxylase antibody Hypoxia-inducible factor 1-alpha inhibitor antibody Hypoxia-inducible factor asparagine hydroxylase antibody Peptide aspartate beta dioxygenase antibody
Accession No.	Swiss-Prot#:Q9NWT6
Uniprot	Q9NWT6
GeneID	55662;
Calculated MW	40 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

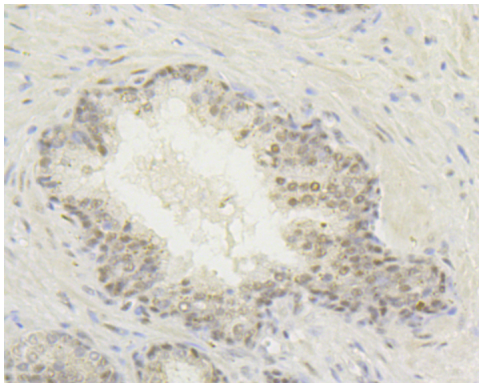
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

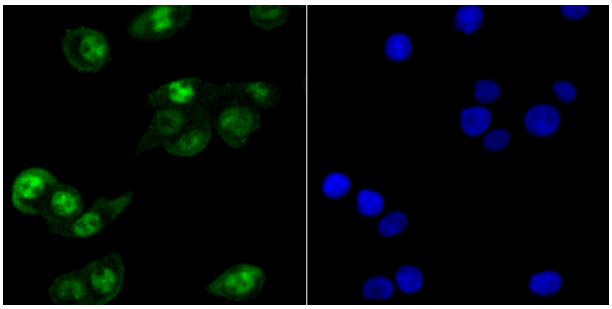
Images



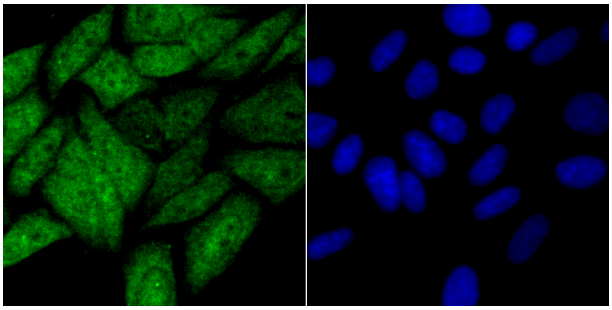
Western blot analysis of HIF1AN on A549 and Jurkat cell lysates using anti-HIF1AN antibody at 1/1,000 dilution.



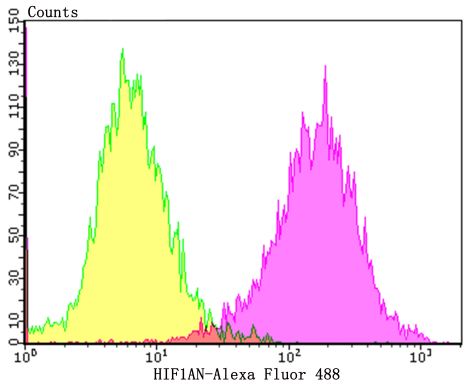
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue using anti-HIF1AN antibody. Counter stained with hematoxylin.



ICC staining HIF1AN in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining HIF1AN in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of LOVO cells with HIF1AN antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

Factor inhibiting HIF-1 (FIH-1) exists as a homodimer and binds to HIF-1α. Specifically, FIH-1 operates as an asparaginyl hydroxylase. It catalyzes the hydroxylation of the β-carbon of Asparagine residue 803 within the carboxy terminal transactivation domain of HIF-1α. This hydroxylation event blocks the association of HIF-1α with co-activators. FIH-1 also binds to von Hippel-Lindau (VHL) tumor suppressor protein, which represses transcriptional ac-tivity of HIF-1α. In transiently transfected human osteosarcoma cells, FIH-1 localizes to the cytoplasm. The structure of FIH-1 includes a jellyroll-like β-barrel containing ferrous-binding triad residues. The gene encoding human FIH-1 maps to chromosome 10q24.

References

Note: This product is for in vitro research use only