

## Anti-HIF1AN Antibody (9B616)

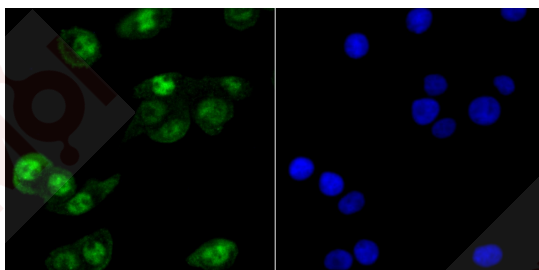
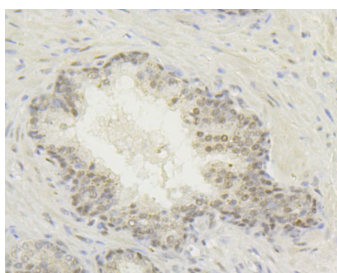
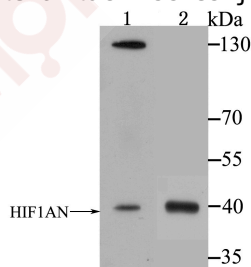
### Product Details

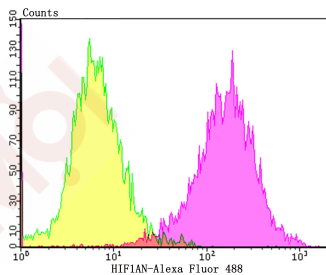
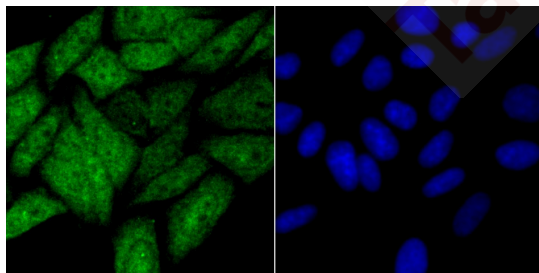
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 40 kDa.
Clone:	9B616
Purification:	ProA affinity purified

### Applications

1. Western blot analysis of HIF1AN on A549 and Jurkat cell lysates using anti-HIF1AN antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue using anti-HIF1AN antibody. Counter stained with hematoxylin.
3. 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.
4. 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.
5. 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.

Verified Activity:





Application: FCM,ICC,IHC,WB

Recommended WB: 1:500-2000; IHC: 1:50-200; ICC: 1:50-200; FCM: 1:50-100

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: human HIF1AN aa 1-200

Antigen Species: Human

Uniprot ID: Q9NWT6

### Research Background

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

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481