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Mouse Anti-HIF1AN antibody

SLM-51675M

Product Name	HIF1AN
Chinese Name	缺氧诱导因子 1α 抑制蛋白/HIF1AN 单克隆抗体
Alias	Hypoxia inducible factor asparagine hydroxylase; Factor inhibiting HIF1; FIH 1; FIH-1; FIH1; Hypoxia inducible factor 1 alpha inhibitor; Hypoxia inducible factor 1 alpha subunit inhibitor; Peptide aspartate beta dioxygenase; DKFZp762F1811; FLJ20615; FLJ22027; HIF1N_HUMAN.
Research Area	Tumour Cardiovascular Cell biology Chromatin and nuclear signals Neurobiology Signal transduction transcriptional regulatory factor
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	L8U9
React Species	Human
Applications	WB=1:1000-5000,ICC/IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	38kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human HIF1AN: 1-349/349
Lsotype	IgG1,k
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

Product Detail

HIF1AN (Hypoxia inducible factor 1 alpha inhibitor) is a corepressor that interacts with hypoxia inducible factor 1 (HIF1) alpha and the von Hippel Lindau tumor suppressor protein to mediate repression of HIF1 transcriptional activity.

Function:
Hydroxylates HIF-1 alpha at 'Asp-803' in the C-terminaltransactivation domain (CAD). Functions as an oxygen sensor and,under normoxic conditions, the hydroxylation prevents interactionof HIF-1 with transcriptional coactivators includingCbp/p300-interacting transactivator. Involved in transcriptionalrepression through interaction with HIF1A, VHL and histonedeacetylases. Hydroxylates specific Asn residues within ankyrinrepeat domains (ARD) of NFKB1, NFKBIA, NOTCH1, ASB4, PPP1R12A andseveral other ARD-containing proteins. Also hydroxylates Asp andHis residues within ARDs of ANK1 and TNKS2, respectively.Negatively regulates NOTCH1 activity, accelerating myogenicdifferentiation. Positively regulates ASB4 activity, promotingvascular differentiation.

Subunit:
Homodimer; homodimerization is essential for catalyticactivity. Interacts with VHL and HIF1A. Part of a complex with VHL,HIF1A and HDAC1 or HDAC2 or HDAC3. Interacts with NFKB1 and NFKBIA.Interacts with NOTCH1, NOTCH2 and NOTCH3 but not with NOTCH4.Interacts with APBA3; binding inhibits HIF1AN binding to HIF1A.Interacts with TNKS2. Interacts with PPP1R12A. Interacts with ASB4(By similarity). Interacts with UBE3A.

Subcellular Location:
Nucleus. Cytoplasm. Cytoplasm, perinuclearregion. Note=Mainly cytoplasmic localization, but interaction withNOTCH1 results in nuclear localization and interaction with ABPA3results in perinuclear localization in macrophages.

Similarity:
Contains 1 JmjC domain.

SWISS:
Q9NWT6

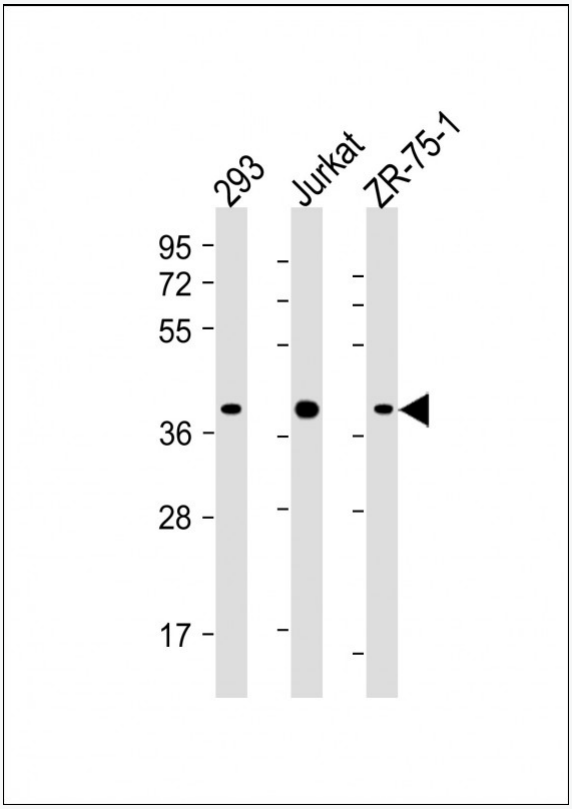
Gene ID:
55662

Database links:

Entrez Gene: 55662 Human

SwissProt: Q9NWT6 Human

Product Picture



Sample:

Lane 1: 293 cell lysates

Lane 2: Jurkat cell lysates

Lane 3: ZR-75-1 cell lysates

Primary: Anti-HIF1AN (SLM-51675M) at 1/4000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 38 kD

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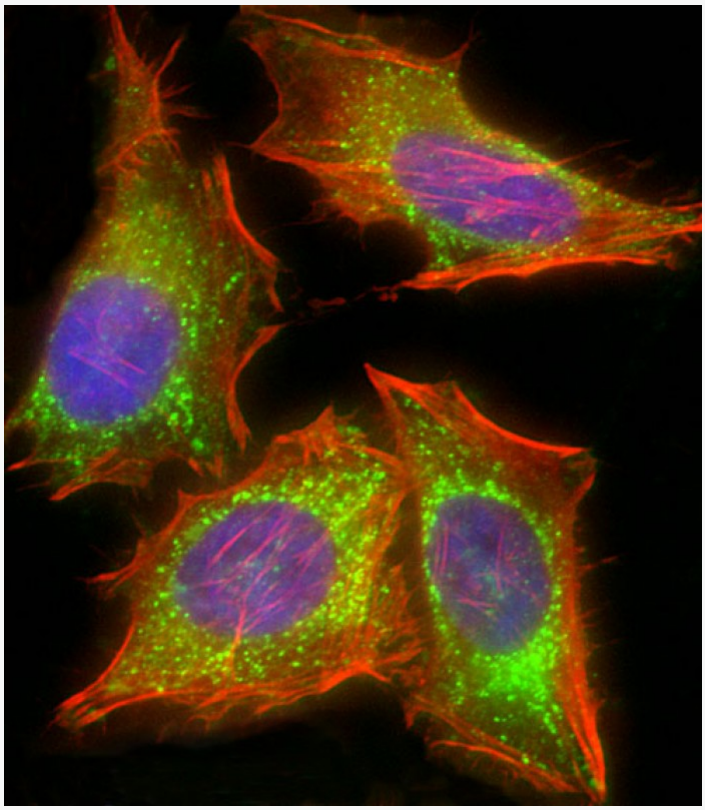
Observed band size: 38 kD



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (HIF1AN) monoclonal Antibody, Unconjugated (SLM-51675M) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.Dylight® 554 Phalloidin (red) was used to stain the cell Cytoplasmic actin.