HIF1A antibody

Cat.#: AF1009
Size: 100ul,200ul

Concn.: 1mg/ml
Source: Rabbit

Mol.Wt.: 120kDa
Clonality: Polyclonal

Application:
WB 1:500-1:2000
IHC 1:50-1:200
IF 1:200

Reactivity:
Human, Mouse, Rat

Purification:
Immunogen affinity purified

Specificity:
HIF1a antibody detects endogenous levels of HIF1a.

Immunogen:
A synthesized peptide derived from human HIF1a.

Uniprot:
Q16665

Description:
Cell growth and viability is compromised by oxygen deprivation (hypoxia). Hypoxia-inducible factors, including HIF-1?, Arnt 1 (also designated HIF-1?), EPAS-1 (also designated HIF-2?) and HIF-3?, induce glycolysis, erythropoiesis and angiogenesis in order to restore oxygen homeostasis. Hypoxia-inducible factors are members of the Per-Arnt-Sim (PAS) domain transcription factor family.

Subcellular Location:
Cytosol;Nucleus;

Tissue Specificity:
Expressed in most tissues with highest levels in kidney and heart. Overexpressed in the majority of common human cancers and their metastases, due to the presence of intratumoral hypoxia and as a result of mutations in genes encoding oncoproteins and tumor suppressors. A higher level expression seen in pituitary tumors as compared to the pituitary gland.

Similarity:
Contains two independent C-terminal transactivation domains, NTAD and CTAD, which function synergistically. Their transcriptional activity is repressed by an intervening inhibitory domain (ID).

Storage Condition and Buffer:
Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 ºC. Stable for 15 months from date of receipt.

Western blot analysis on LOVO using HIF1a antibody . The lane on the left is blocked with the antigen-specific peptide.
Colon tissue HIF1A antibody used at 1/200 on formalin-fixed paraffin embedded tissue.

Western blot analysis of extracts of various sample, using hif1a antibody.

G protein-coupled estrogen receptor (GPER) mediates upregulation of HIF-1α and HIF-1α target gene expression induced by E2 and G1. Endometrial stromal cells were treated with E2 or G1, with or without pretreatment with G15 for 30 minutes.

Histological and immunohistochemistry analysis. *P<0.05, **P<0.01, ***P<0.001, ****P<0.0001.

AF1009 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody (Cat.# S0006), diluted at 1/600, was used as secondary antibody.
IMPORTANT: For western blot, incubate membrane with diluted antibody in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.