# HIF1A Ab

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| Cat.#: AF1009 | Concn.: 1mg/ml | Mol.Wt.: 120kDa |
| Size: 100ul,200ul | Source: Rabbit | Clonality: Polyclonal |

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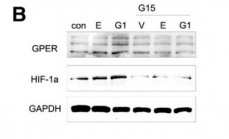
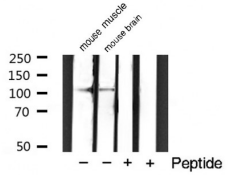
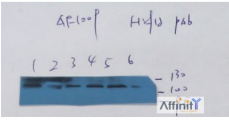
| Application: | WB 1:500-1:2000 IHC 1:50-1:200 IF 1:200 |
| Reactivity: | Human,Mouse,Rat |
| Purification: | The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific). |
| Specificity: | HIF1a Ab detects endogenous levels of HIF1a. |
| 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-1α, Arnt 1 (also designated HIF-1β), EPAS-1 (also designated HIF-2α) and HIF-3α, 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: | Cytoplasm. Nucleus. Cytoplasmic in normoxia, nuclear translocation in response to hypoxia. Colocalizes with SUMO1 in the nucleus, under hypoxia. |
| 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 °C.Stable for 15 months from date of receipt. |



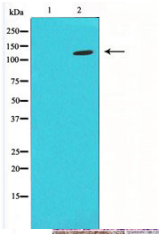

G protein-coupled estrogen receptor (GPER) mediates upregulation of HIF-1a and HIF-1a target gene expression induced by E2 and G1. Endometrial stromal cells were treated with E2 or G1, with or without pretreatment with G15 for 30 minutes.



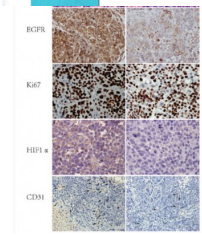

Western blot analysis of extracts of various sample,using hif1a Ab.



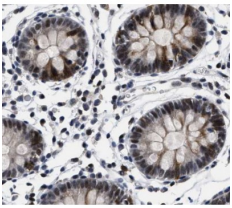

This image is a courtesy of anonymous review



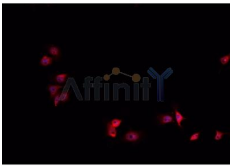

Western blot analysis on LOVO using HIF1a Ab ,The lane on the left is blocked with the antigen-specific peptide.




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



Colon tissue HIF1A Ab used at 1/200 on formalin-fixed paraffin embedded tissue.



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 Ab 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) Ab(Cat.# S0006), diluted at 1/600, was used as secondary Ab.

*IMPORTANT:* For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.