**HIF1A Ab**

Cat.#: AF1009  
Concn.: 1mg/ml  
Mol.Wt.: 120kDa

Size: 100ul, 200ul  
Source: Rabbit  
Clonality: Polyclonal

**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, corresponding to a region within the internal amino acids.

**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:**  

**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.
Western blot analysis of extracts from various sample, using hif1a Ab.
lane1: mouse muscle,
lane2: mouse brain,
lane3: mouse muscle with blocking peptide,
lane4: mouse brain with blocking peptide,

Colon tissue HIF1A Ab used at 1/200 on formalin-fixed paraffin embedded rat colon 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 (Red), 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.