HIF1 alpha Antibody

Catalog No: #48529

Package Size: #48529-1 50ul #48529-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

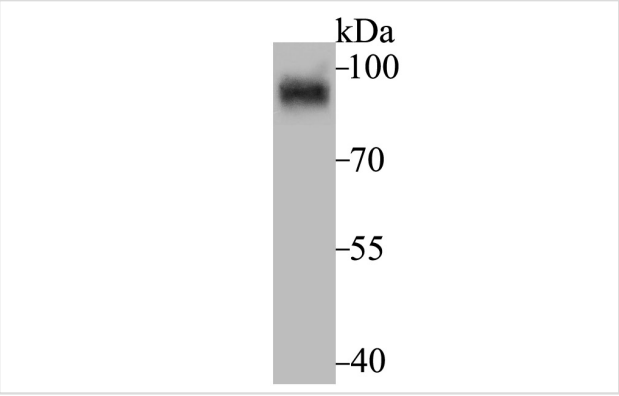
Description

Product Name	HIF1 alpha Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	WB,ICC,FC
Species Reactivity	Human;Mouse
Immunogen Description	Peptide
Conjugates	Unconjugated
Other Names	ARNT interacting protein antibody ARNT-interacting protein antibody Basic helix loop helix PAS protein MOP1 antibody Basic-helix-loop-helix-PAS protein MOP1 antibody bHLHe78 antibody Class E basic helix-loop-helix protein 78 antibody HIF 1A antibody HIF 1alpha antibody HIF-1-alpha antibody HIF1 A antibody HIF1 Alpha antibody HIF1 antibody HIF1-alpha antibody HIF1A antibody HIF1A_HUMAN antibody Hypoxia inducible factor 1 alpha antibody Hypoxia inducible factor 1 alpha isoform I.3 antibody Hypoxia inducible factor 1 alpha subunit antibody Hypoxia inducible factor 1 alpha subunit basic helix loop helix transcription factor antibody Hypoxia inducible factor 1, alpha subunit (basic helix loop helix transcription factor) antibody Hypoxia inducible factor1alpha antibody Hypoxia-inducible factor 1-alpha antibody Member of PAS protein 1 antibody Member of PAS superfamily 1 antibody Member of the PAS Superfamily 1 antibody MOP 1 antibody MOP1 antibody PAS domain-containing protein 8 antibody PASD 8 antibody PASD8 antibody
Accession No.	Swiss-Prot#:Q16665
Formulation	1*TBS (pH7.4), 0.5%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

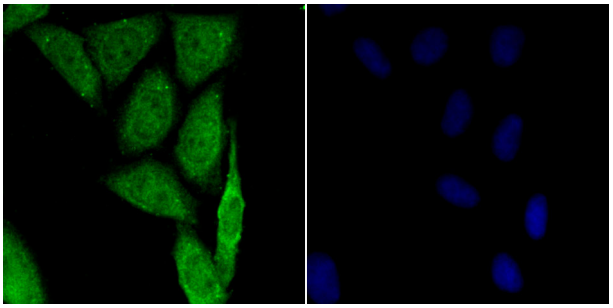
Application Details

WB: 1:500 ICC: 1:50-1:200FC: 1:50-1:100

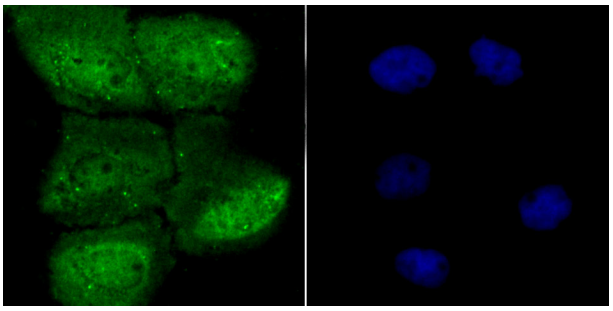
Images



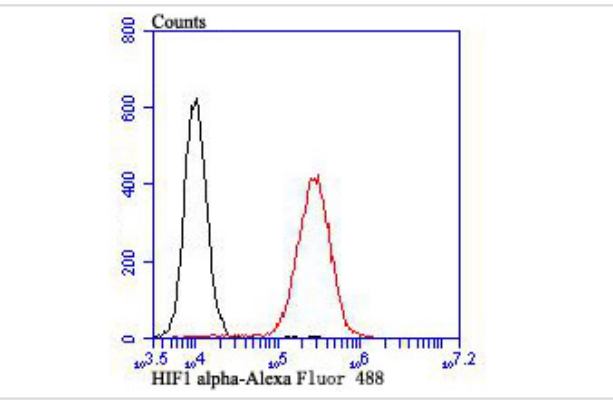
Western blot analysis of HIF-1 alpha on mouse small intestine tissue lysate using anti-HIF-1 alpha antibody at 1/500 dilution.



ICC staining HIF-1 alpha in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining HIF-1 alpha in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining HIF-1 alpha in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS. Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

Cell growth and viability is compromised by oxygen deprivation (hypoxia). Hypoxia-inducible factors, including HIF-1α, HIF-1β (also designated Arnt 1), 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. In response to hypoxia, HIF-1α is upregulated and forms a heterodimer with Arnt 1 to form the HIF-1 complex. The HIF-1 complex recognizes and binds to the hypoxia responsive element (HRE) of hypoxia-inducible genes, thereby activating transcription. Hypoxia-inducible expression of some genes such as Glut-1, p53, p21 or Bcl-2, is HIF-1α dependent, whereas expression of others, such as p27, GADD 153 or HO-1, is HIF-1α independent. EPAS-1 and HIF-3α have also been shown to form heterodimeric complexes with Arnt 1 in response to hypoxia.

References

1. Bhattacharya S et al. Functional role of p35srj, a novel p300/CBP binding protein, during transactivation by HIF-1. Genes Dev 13:64-75 (1999). 2. Masson N et al. Independent function of two destruction domains in hypoxia-inducible factor-alpha chains activated by prolyl hydroxylation. EMBO J 20:5197-5206 (2001).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.