ARG43824
anti-HIF-1 alpha antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes HIF-1 alpha
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, ICC/IF, IHC-P, WB
Specificity	Human,Mouse,Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	HIF-1 alpha
Species	Human
Immunogen	Synthetic peptide of human HIF-1alpha.
Conjugation	Un-conjugated
Alternate Names	HIF1A; Hypoxia Inducible Factor 1 Subunit Alpha; BHLHe78; PASD8; MOP1; Class E Basic Helix-Loop-Helix Protein 78; PAS Domain-Containing Protein 8; Member Of PAS Protein 1; HIF-1alpha; HIF1; Hypoxia Inducible Factor 1, Alpha Subunit (Basic Helix-Loop-Helix Transcription Factor); Basic-Helix-Loop-Helix-PAS Protein MOP1; Hypoxia-Inducible Factor 1-Alpha; HIF-1-Alpha; Hypoxia Inducible Factor 1 Alpha Subunit; Hypoxia-Inducible Factor1alpha; Member Of PAS Superfamily 1; ARNT Interacting Protein; ARNT-Interacting Protein; HIF1-ALPHA; HIF1-Alpha; BHLHE78; HIF-1A

Application Instructions

Application table

Application	Dilution
ELISA	1:10000
ICC/IF	1:50-1:200
IHC-P	1:50-1:100
WB	1:500-1:1000

Observed Size: 92-130 kDa

Properties

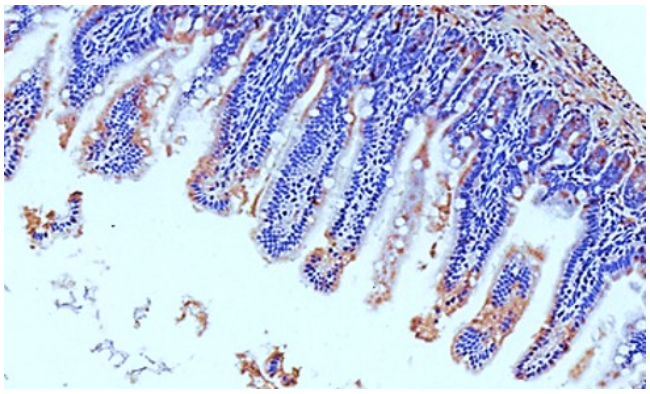
Form	Liquid
Purification	Affinity Purified
Buffer	Tris-Glycine, 50% Glycerol, 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	HIF1A
Gene Full Name	Hypoxia Inducible Factor 1 Subunit Alpha
Background	This gene encodes the alpha subunit of transcription factor hypoxia-inducible factor-1 (HIF-1), which is a heterodimer composed of an alpha and a beta subunit. HIF-1 functions as a master regulator of cellular and systemic homeostatic response to hypoxia by activating transcription of many genes, including those involved in energy metabolism, angiogenesis, apoptosis, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia. HIF-1 thus plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2011]
Function	Under hypoxic conditions, activates the transcription of over 40 genes, including erythropoietin, glucose transporters, glycolytic enzymes, vascular endothelial growth factor, HILPDA, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia. [UniProt]
Calculated Mw	93 kDa
PTM	Acetylation, Glycoprotein, Hydroxylation, Isopeptide bond, Phosphoprotein, S-nitrosylation, Ubl conjugation. [UniProt]
Cellular Localization	Cytoplasm, Nucleus. [UniProt]

Images

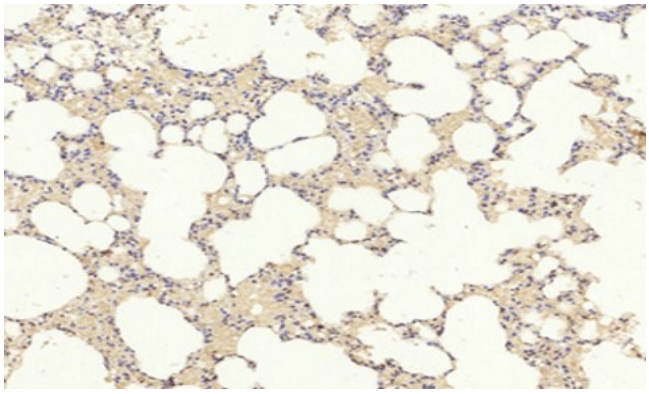


ARG43824 anti-HIF-1 alpha antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse Colon tissue stained with ARG43824 anti-HIF-1 alpha antibody at 1:50 dilution.

ARG43824 anti-HIF-1 alpha antibody WB image

Western blot: LOVO stained with ARG43824 anti-HIF-1 alpha antibody at 1:500 dilution.



ARG43824 anti-HIF-1 alpha antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat Lung tissue stained with ARG43824 anti-HIF-1 alpha antibody at 1:50 dilution.