

Recombinant Human HIF1A Protein, His&ABP tagged

Cat. No. HIF1A-003H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human hypoxia inducible factor 1 subunit alpha Protein with His&ABP tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	682-823 aa
Description	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.
Tag	His&ABP
Form	Liquid
AA Sequence	KSHPRSPNVLSVALSQRTTVPEEELNPKILALQNAQRKRKMEHDGSLFQAVGIGTLL QQPDDHAATTSLSWKRVKGCKSSEQNGMEQKTIILIPSDLACRLLGQSMDESGLPQ

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LTSYDCEVNAPIQGSRNLLQGEELLRALD

Purity >80% by SDS-PAGE and Coomassie blue staining.

Applications This recombinant protein control fragment may be used for blocking experiments. In IHC/ICC and WB experiments, we recommend a 100× molar excess of the protein fragment control based on the concentration and the molecular weight. Pre-incubate the antibody-protein control fragment mixture for 30 min at room temperature.

Storage At -20 centigrade, Avoid Freeze/Thaw Cycles

Storage Buffer 1M urea/PBS, pH 7.4

Concentration ≥5.0 mg/mL

Shipping Wet ice

GENE INFORMATION

Gene Name HIF1A hypoxia inducible factor 1 subunit alpha [Homo sapiens (human)]

Official Symbol HIF1A

Synonyms HIF1A; hypoxia inducible factor 1 subunit alpha; HIF1; MOP1; PASD8; HIF-1A; bHLHe78; HIF-1alpha; HIF1-ALPHA; HIF-1-alpha; hypoxia-inducible factor 1-alpha; ARNT interacting protein; PAS domain-containing protein 8; basic-helix-loop-helix-PAS protein MOP1; class E basic helix-loop-helix protein 78; hypoxia inducible factor 1 alpha subunit; hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor); hypoxia-inducible factor1alpha; member of PAS protein 1; member of PAS superfamily 1

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Gene ID	3091
mRNA Refseq	NM_001530
Protein Refseq	NP_001521
MIM	603348
UniProt ID	Q16665

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