

## Product datasheet for **CF811847**

### HIF-1 alpha (HIF1A) Mouse Monoclonal Antibody [Clone ID: OTI2D5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2D5
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 531-826 of human HIF1a (NP_001521) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	92.5 kDa
Gene Name:	hypoxia inducible factor 1 subunit alpha
Database Link:	<a href="#">NP_001521</a> <a href="#">Entrez Gene 15251 Mouse</a> <a href="#">Entrez Gene 29560 Rat</a> <a href="#">Entrez Gene 3091 Human</a> <a href="#">Q16665</a>



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**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]

**Synonyms:**

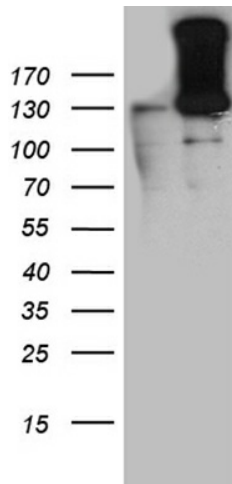
bHLHe78; HIF-1-alpha; HIF-1A; HIF-1alpha; HIF1; HIF1-ALPHA; MOP1; PASD8

**Protein Families:**

Transcription Factors

**Protein Pathways:**

mTOR signaling pathway, Pathways in cancer, Renal cell carcinoma

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY HIF1A ([RC202461], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HIF1A. Positive lysates [LY419880] (100ug) and [LC419880] (20ug) can be purchased separately from OriGene.