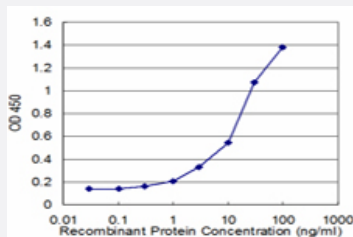


# HIF1A monoclonal antibody (M02), clone 1D4

Catalog # H00003091-M02

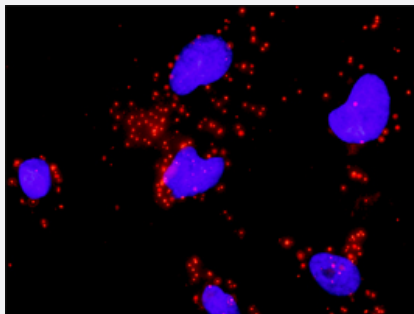
Size 100 ug

## Applications



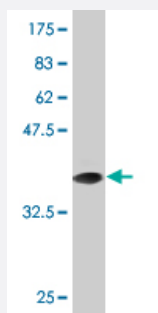
### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HIF1A is approximately 0.3ng/ml as a capture antibody.



### In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between HDAC2 and HIF1A. HeLa cells were stained with anti-HDAC2 rabbit purified polyclonal 1:1200 and anti-HIF1A mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (37.84 KDa) .

## Specification

### Product Description

Mouse monoclonal antibody raised against a partial recombinant HIF1A.

|                               |                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | HIF1A (NP_001521, 717 a.a. ~ 826 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| Sequence                      | QRKRKMEHDGSLFQAVGIGTLLQQPDDHAATTSLSWKRVKGCKSSEQNGMEQKTIILIPSDLACRLLGQSMDESGLPQLTSYDCEVNAPIQGSRNLLQGEELLRALDQVN     |
| Host                          | Mouse                                                                                                              |
| Reactivity                    | Human                                                                                                              |
| Interspecies Antigen Sequence | Mouse (93); Rat (92)                                                                                               |
| Isotype                       | IgG2b Kappa                                                                                                        |
| Quality Control Testing       | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (37.84 KDa) .           |
| Storage Buffer                | In 1x PBS, pH 7.4                                                                                                  |
| Storage Instruction           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                           |

## Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HIF1A is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between HDAC2 and HIF1A. HeLa cells were stained with anti-HDAC2 rabbit purified polyclonal 1:1200 and anti-HIF1A mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

## Gene Info — HIF1A

Entrez GeneID [3091](#)

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GeneBank Accession# | <a href="#">NM_001530</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protein Accession#  | <a href="#">NP_001521</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Name           | HIF1A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Alias          | HIF-1alpha, HIF1, HIF1-ALPHA, MOP1, PASD8, bHLHe78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Description    | hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Omim ID             | <a href="#">603348</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Summary        | <p>Hypoxia-inducible factor-1 (HIF1) is a transcription factor found in mammalian cells cultured under reduced oxygen tension that plays an essential role in cellular and systemic homeostatic responses to hypoxia. HIF1 is a heterodimer composed of an alpha subunit and a beta subunit. The beta subunit has been identified as the aryl hydrocarbon receptor nuclear translocator (ARNT). This gene encodes the alpha subunit of HIF-1. Overexpression of a natural antisense transcript (aHIF) of this gene has been shown to be associated with nonpapillary renal carcinomas. Two alternative transcripts encoding different isoforms have been identified. [provided by RefSeq]</p> |
| Other Designations  | ARNT interacting protein hypoxia-inducible factor 1, alpha subunit hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor) member of PAS superfamily 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Pathway

- [mTOR signaling pathway](#)
- [Pathways in cancer](#)
- [Renal cell carcinoma](#)

## Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Altitude Sickness](#)
- [Angina Pectoris](#)
- [Anoxia](#)
- [Breast cancer](#)

- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cellulitis](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colorectal Neoplasms](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Diabetic Retinopathy](#)
- [Disease Susceptibility](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Femur Head Necrosis](#)
- [Genetic Predisposition to Disease](#)
- [Giant Cell Arteritis](#)
- [Gilbert Disease](#)
- [Hot Flashes](#)
- [Hyperbilirubinemia](#)
- [Hypercholesterolemia](#)
- [Intracranial Arteriosclerosis](#)
- [Intracranial Thrombosis](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)

- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Microsatellite Instability](#)
- [Mouth Neoplasms](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Neoplasm Invasiveness](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Obesity](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Peripheral Arterial Disease](#)
- [Polycythemia](#)
- [Pre-Eclampsia](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Renal Insufficiency](#)
- [Retinopathy of Prematurity](#)
- [Scleroderma](#)
- [Sleep Apnea](#)
- [Stomach Neoplasms](#)
- [Ulcer](#)
- [Urinary Bladder Neoplasms](#)

- [Uterine Cervical Neoplasms](#)