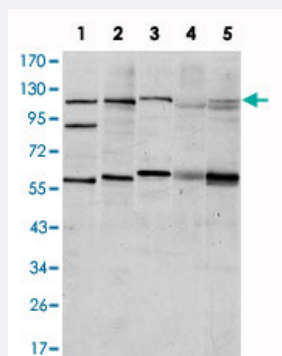


HIF1A monoclonal antibody, clone 1A3

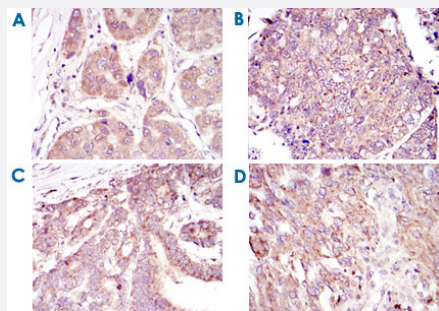
Catalog # MAB10681 Size 100 uL

Applications



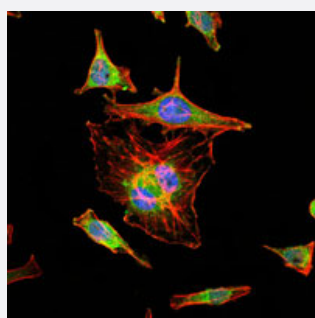
Western Blot (Cell lysate)

Western blot analysis using HIF1A monoclonal antibody, clone 1A3 (Cat # MAB10681) against COS-7 (1), HeLa (2), Jurkat (3), RAJI (4) and NIH/3T3 (5) cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human liver cancer tissues (A), lung cancer tissues (B), stomach cancer tissues (C) and brain tumor tissues (D) using HIF1A monoclonal antibody, clone 1A3 (Cat # MAB10681) with DAB staining.

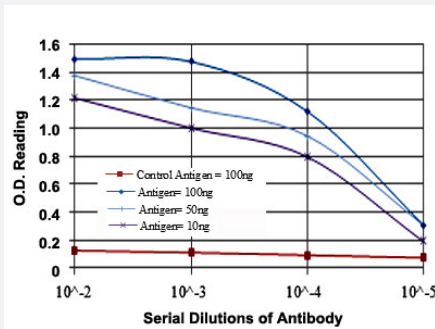


Immunofluorescence

Immunofluorescence analysis of HeLa cells using HIF1A monoclonal antibody, clone 1A3 (Cat # MAB10681) (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Enzyme-linked Immunoabsorbent Assay

ELISA measurement of HIF1A monoclonal antibody, clone 1A3 (Cat # MAB10681) .



Specification

Product Description Mouse monoclonal antibody raised against partial recombinant HIF1A.

Immunogen Recombinant protein corresponding to human HIF1A.

Host Mouse

Theoretical MW (kDa) 120

Reactivity Human, Monkey, Mouse

Form Liquid

Isotype IgG1

Recommend Usage
 ELISA (1:10000)
 Western Blot (1:500-1:2000)
 Immunohistochemistry (1:200-1:1000)
 Immunofluorescence (1:200-1:1000)
 The optimal working dilution should be determined by the end user.

Storage Buffer In ascites (0.03% sodium azide)

Storage Instruction
 Store at 4°C. For long term storage store at -20°C.
 Aliquot to avoid repeated freezing and thawing.

Note This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis using HIF1A monoclonal antibody, clone 1A3 (Cat # MAB10681) against COS-7 (1) , HeLa (2) , Jurkat (3) , RAJI (4) and NIH/3T3 (5) cell lysate.

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- Immunofluorescence

Immunofluorescence analysis of HeLa cells using HIF1A monoclonal antibody, clone 1A3 (Cat # MAB10681) (green) . Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

- Enzyme-linked Immunoabsorbent Assay

ELISA measurement of HIF1A monoclonal antibody, clone 1A3 (Cat # MAB10681) .

Gene Info — HIF1A

Entrez GeneID [3091](#)

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 [603348](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

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](#)
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- [Liver Neoplasms](#)
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- [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](#)
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- [Stomach Neoplasms](#)
- [Ulcer](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)