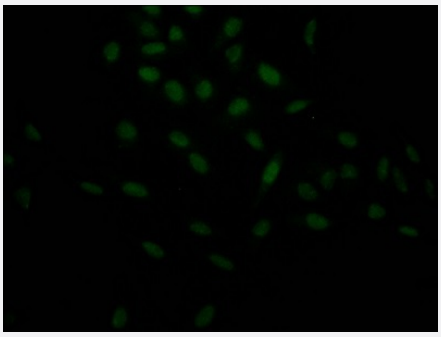
RecomAb™

HIF1A recombinant monoclonal antibody, clone 5D12

Catalog # RAB07449 Size 100 uL

Applications



Immunofluorescence

Immunofluorescent staining of Hela Cells with HIF1A recombinant monoclonal antibody, clone 5D12 (Cat # RAB07449). The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human HIF1A.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human HIF1A.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)

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Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescent staining of Hela Cells with HIF1A recombinant monoclonal antibody, clone 5D12 (Cat # RAB07449). The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — HIF1A

Entrez GeneID	3091
Protein Accession#	Q16665
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 respons es 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 ge ne encodes the alpha subunit of HIF-1. Overexpression of a natural antisense transcript (aHIF) of t his gene has been shown to be associated with nonpapillary renal carcinomas. Two alternative tra nscripts encoding different isoforms have been identified. [provided by RefSeq
Other Designations	ARNT interacting protein|hypoxia-inducible factor 1, alpha subunit|hypoxia-inducible factor 1, alph a subunit (basic helix-loop-helix transcription factor)|member of PAS superfamily 1

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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

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- 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

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- 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

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