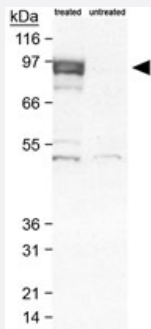


HIF1A polyclonal antibody

Catalog # PAB12419 Size 100 uL

Applications



Western Blot (Cell lysate)

Detection of HIF1A in Cobalt Chloride treated/untreated COS-7 nuclear extracts using HIF1A polyclonal antibody (Cat # PAB12419).

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant HIF1A.
Immunogen	Recombinant protein corresponding to amino acids 432-528 of human HIF1A.
Host	Rabbit
Reactivity	Bovine, Human, Mouse, Pig
Specificity	This antibody is specific to HIF-1 alpha.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris-glycine, 150 mM NaCl (0.05% sodium azide)
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 should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Detection of HIF1A in Cobalt Chloride treated/untreated COS-7 nuclear extracts using HIF1A polyclonal antibody (Cat # PAB12419).

- Immunohistochemistry

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 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

Publication Reference

- [Oxygen-regulated gene expression in bovine blastocysts.](#)

Harvey AJ, Kind KL, Pantaleon M, Armstrong DT, Thompson JG.

Biology of Reproduction 2004 Oct; 71(4):1108.

Application: IF, Bovine, Bovine blastocysts

- [Hyperoxia prevents carrageenan-induced enlargement of functional residual lung capacity in rats.](#)

Fisarkova B, Vizek M.

Physiological Research 2003 Jan; 52(6):763.

- [Role of hypoxia-inducible factor-1 in hypoxia-induced ischemic tolerance in neonatal rat brain.](#)

Bergeron M, Gidday JM, Yu AY, Semenza GL, Ferriero DM, Sharp FR.

Annals of Neurology 2000 Sep; 48(3):285.

Application: IHC-Fr, WB-Ti, Rat, Rat cerebral cortex

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](#)
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- [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](#)