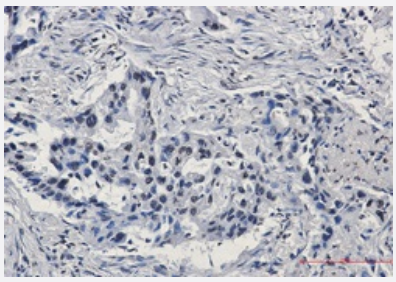
RecomAb™

ARNT recombinant monoclonal antibody, clone R05-3B2

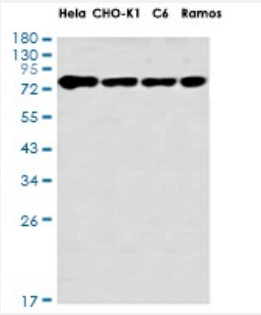
Catalog # RAB01436 Size 100 uL

Applications



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

Immunohistochemistry analysis of paraffin-embedded Human lung cancer using HIF1 beta antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western Blot

Western blot analysis of HIF1 beta in Hela, CHO-K1, C6, Ramos lysates using HIF1 beta antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ARNT.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human ARNT.
Theoretical MW (kDa)	Calculated MW: 87 kD
Reactivity	Human
Form	Liquid

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Preparation Method	Mammalian cell (CHO) expression system
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA).
Storage Instruction	Store at 4°C. For longer storage, aliquot and store at -20°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

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

  Immunohistochemistry analysis of paraffin-embedded Human lung cancer using HIF1 beta antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

- Western Blot

  Western blot analysis of HIF1 beta in Hela, CHO-K1, C6, Ramos lysates using HIF1 beta antibody.

Gene Info — ARNT

Entrez GeneID	405
Protein Accession#	P27540
Gene Name	ARNT
Gene Alias	HIF-1beta, HIF1B, HIF1BETA, TANGO, bHLHe2
Gene Description	aryl hydrocarbon receptor nuclear translocator
Omim ID	126110
Gene Ontology	Hyperlink

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Gene Summary	The aryl hydrocarbon (Ah) receptor is involved in the induction of several enzymes that participate in xenobiotic metabolism. The ligand-free, cytosolic form of the Ah receptor is complexed to heat shock protein 90. Binding of ligand, which includes dioxin and polycyclic aromatic hydrocarbons, results in translocation of the ligand-binding subunit only to the nucleus. Induction of enzymes involved in xenobiotic metabolism occurs through binding of the ligand-bound Ah receptor to xenobiotic responsive elements in the promoters of genes for these enzymes. This gene encodes a protein that forms a complex with the ligand-bound Ah receptor, and is required for receptor function. The encoded protein has also been identified as the beta subunit of a heterodimeric transcription factor, hypoxia-inducible factor 1 (HIF1). A t(1;12)(q21;p13) translocation, which results in a TEL-ARNT fusion protein, is associated with acute myeloblastic leukemia. Three alternatively spliced variants encoding different isoforms have been described for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000032943|dioxin receptor, nuclear translocator|hypoxia-inducible factor 1, beta subunit

Pathway

- Pathways in cancer
- Renal cell carcinoma

Disease

- Abortion
- Adenocarcinoma
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Diabetes Mellitus
- Edema
- Endometriosis
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Infertility
- Lung Neoplasms

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- Parkinson disease
- Prediabetic State
- Prostate cancer
- Pulmonary Disease
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Werner syndrome

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