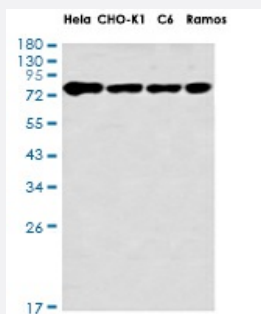


RecomAb™

ARNT recombinant monoclonal antibody, clone R05-3B2

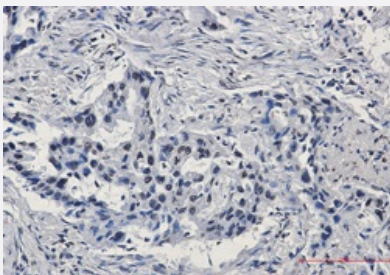
Catalog # RAB01436 Size 100 uL

Applications



Western Blot

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



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.

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

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 50mM Tris-Glycine, pH 7.4, (0.15M 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 should be handled by trained staff only.

Applications

- Western Blot

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

- 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.

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

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](#)

- [Parkinson disease](#)
- [Prediabetic State](#)
- [Prostate cancer](#)
- [Pulmonary Disease](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)