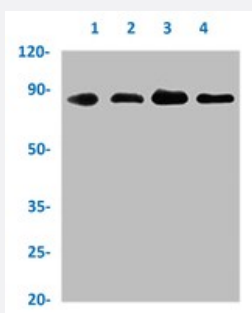


RecomAb™

ARNT recombinant monoclonal antibody, clone 2F11

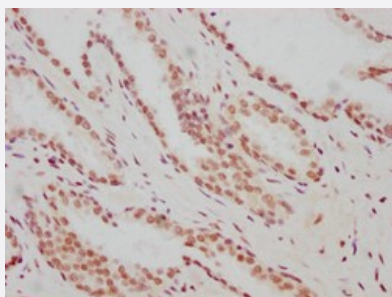
Catalog # RAB04344 Size 100 uL

Applications



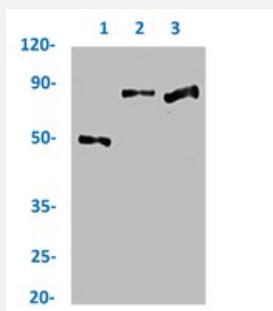
Western Blot

Western blot analysis of Lane 1: HeLa whole cell lysate, Lane 2: MCF-7 whole cell lysate, Lane 3: HepG2 whole cell lysate and Lane 4: K562 whole cell lysate with ARNT recombinant monoclonal antibody, clone 2F11 (Cat # RAB04344).



Immunohistochemistry

Immunohistochemical staining of human prostate cancer with ARNT recombinant monoclonal antibody, clone 2F11 (Cat # RAB04344) (diluted at 1:183).



Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with ARNT recombinant monoclonal antibody, clone 2F11 (Cat # RAB04344).

Lane 1: rabbit control IgG, Lane 2: RAB04344 precipitates and Lane 3: Input (HeLa whole cell lysate).

Specification

Product Description

Rabbit recombinant monoclonal antibody raised against human ARNT.

Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ARNT.
Theoretical MW (kDa)	Calculated MW: 87, 8
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:200-1:1000) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% 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

Western blot analysis of Lane 1: Hela whole cell lysate, Lane 2: MCF-7 whole cell lysate, Lane 3: HepG2 whole cell lysate and Lane 4: K562 whole cell lysate with ARNT recombinant monoclonal antibody, clone 2F11 (Cat # RAB04344).

- Immunohistochemistry

Immunohistochemical staining of human prostate cancer with ARNT recombinant monoclonal antibody, clone 2F11 (Cat # RAB04344) (diluted at 1:183).

- Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with ARNT recombinant monoclonal antibody, clone 2F11 (Cat # RAB04344). Lane 1: rabbit control IgG, Lane 2: RAB04344 precipitates and Lane 3: Input (Hela whole cell lysate).

- Enzyme-linked Immunoabsorbent Assay

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](#)
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- [Werner syndrome](#)