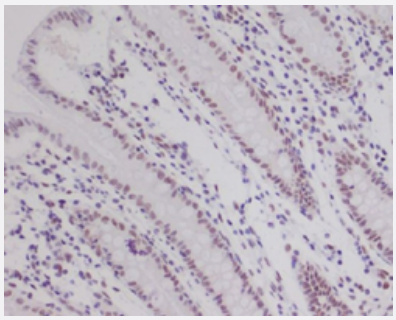
ARNT monoclonal antibody, clone EAD-1

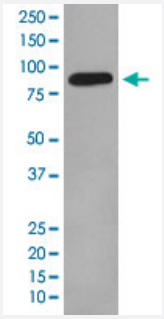
Catalog # MAB20139 Size 100 uL

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon with ARNT monoclonal antibody, clone EAD-1 (Cat # MAB20139).



Western Blot (Tissue lysate)

Western Blot analysis of human fetal kidney tissue lysate with ARNT monoclonal antibody, clone EAD-1 (Cat # MAB20139).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human ARNT.
Immunogen	A synthetic peptide corresponding to human ARNT.
Host	Rabbit
Theoretical MW (kDa)	86.636
Reactivity	Human
Form	Liquid
Purification	Affinity purification

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Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1:2000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. 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)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon with ARNT monoclonal antibody, clone EAD-1 (Cat # MAB20139).

- Western Blot (Tissue lysate)

  Western Blot analysis of human fetal kidney tissue lysate with ARNT monoclonal antibody, clone EAD-1 (Cat # MAB20139).

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, r esults in translocation of the ligand-binding subunit only to the nucleus. Induction of enzymes involv ed 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 t hat 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 fact or, hypoxia-inducible factor 1 (HIF1). A t(1;12)(q21;p13) translocation, which results in a TEL-ARN T fusion protein, is associated with acute myeloblastic leukemia. Three alternatively spliced varian ts encoding different isoforms have been described for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000032943|dioxin receptor, nuclear translocator|hypoxia-inducible factor 1, beta su bunit

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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