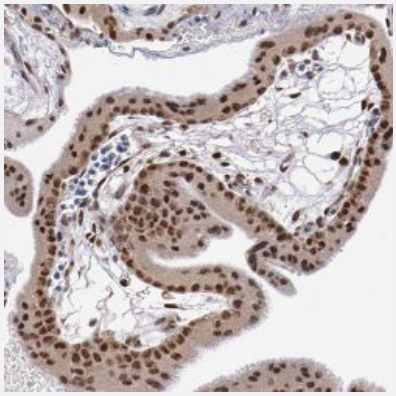
ARNT polyclonal antibody

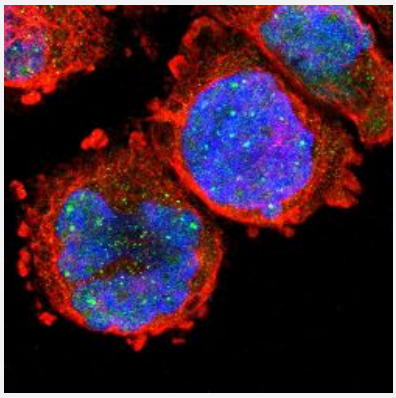
Catalog # PAB28484 Size 100 uL

Applications



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

Immunohistochemical staining of human placenta with ARNT polyclonal antibody (Cat # PAB28484) shows strong nuclear and moderate cytoplasmic positivity in trophoblastic cells.



Immunofluorescence

Immunofluorescent staining of human cell line A-431 with ARNT polyclonal antibody (Cat # PAB28484) at 1-4 ug/ml shows positivity in nuclei.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant ARNT.
Immunogen	Recombinant protein corresponding to amino acids of human ARNT
Sequence	RFSCLRPRVAGTTEMTSDVPSLGPAIASGNSGPGIQGGGAIVQRAIKRRPGLDFDDDGEGNSKFL RCDDDQMSNDKERFARSDDEQSSADKERLARENHSEIERRRRNKMTAYITELSDMV
Host	Rabbit
Reactivity	Human

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Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry(1:50-1:200) Immunofluorescence(1-4 ug/ml) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage 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)

  Immunohistochemical staining of human placenta with ARNT polyclonal antibody (Cat # PAB28484) shows strong nuclear and moderate cytoplasmic positivity in trophoblastic cells.

- Immunofluorescence

  Immunofluorescent staining of human cell line A-431 with ARNT polyclonal antibody (Cat # PAB28484) at 1-4 ug/ml shows positivity in nuclei.

Gene Info — ARNT

Entrez GeneID	405
Protein Accession#	A6NGV6
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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