

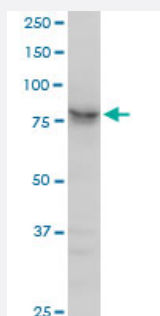
MaxPab®

ARNT purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00000405-B01P

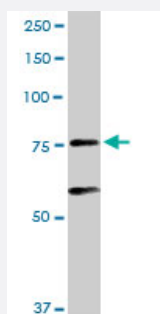
Size 50 ug

Applications



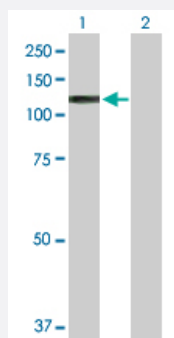
Western Blot (Cell lysate)

ARNT MaxPab polyclonal antibody. Western Blot analysis of ARNT expression in HeLa.



Western Blot (Cell lysate)

ARNT MaxPab polyclonal antibody. Western Blot analysis of ARNT expression in HepG2.

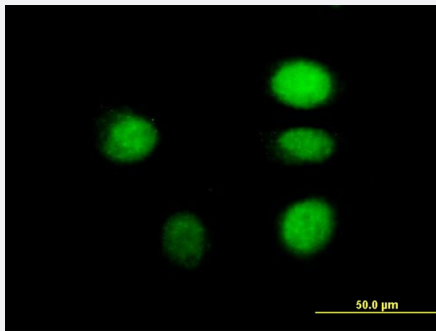


Western Blot (Transfected lysate)

Western Blot analysis of ARNT expression in transfected 293T cell line ([H00000405-T01](#)) by ARNT MaxPab polyclonal antibody.

Lane 1: ARNT transfected lysate(86.79 KDa).

Lane 2: Non-transfected lysate.



Immunofluorescence

Immunofluorescence of purified MaxPab antibody to ARNT on HeLa cell.
[antibody concentration 10 ug/ml]

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human ARNT protein.
Immunogen	ARNT (NP_001659.1, 1 a.a. ~ 789 a.a) full-length human protein.
Sequence	MAATTANPEMTSDVPSLGPASGNSGPGIQGGGAMQRAIKRRPGLDFDDDGEGNSKFLRCDD DQMSNDKERFARSDDQSSADKERLARENHSEIERRRRNKMTAYITELSDMVPTCSALARKPDK LTILMAVSHMKSLRGTGNTSTDGSYKPSFLTQELKHLILEAADGFLFVSCETGRVVVYSDSVTP VLNQPPQSEWFGSTLYDQVHPDDVDKLREQLSTSENALTGRILDKTGTVKKEGQQSSMRMCMG SRRSFICRMRCGSSSVDPVSVNRLSFVRNRCRNLGSGVKDGEPHFVVVHCTGYKAWPPAGVS LPDDDPEAGQGSKFCLVAIGRLQVTSSPNCNDMSNVCQPTFISRHNIIEGFTFVDHRCVATVGYQ PQELLGKNIVEFCHPEDQQLLRDSFQQVVKLGQVLSVMFRFRSKNQEWLWMRTSSFTFQNPY SDEIEYICTNTNVKNSSQEPRPTLSNTIQRPQLGPTANLPLEMGSGQLAPRQQQQQTELDMPVGR DGLASYNHSQVVQPVTGPEHSPLEKSDGLFAQDRDPRFSEYHNINADQSKGISSTVPATQ QLFSQGNTFPPTPRPAENFRNSGLAPPVTIVQPSASAGQMLAQISRHSNPTQGATPTWPTTTRSG FSAQQVATQATAKTRTSQFGVGSFQTPSSFSMSLPGAPTASPGAAAYPSLTNRGSNFAPETGQ TAGQFQTRTAEGVGWVPQWQGGQPHHRSSSEQHVQQPPAQPGQPEVFQEMLSMGLGDQSN SYNNEEFPDLTMFPFSE
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

ARNT MaxPab polyclonal antibody. Western Blot analysis of ARNT expression in HeLa.

[Protocol Download](#)

- Western Blot (Cell lysate)

ARNT MaxPab polyclonal antibody. Western Blot analysis of ARNT expression in HepG2.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ARNT expression in transfected 293T cell line ([H00000405-T01](#)) by ARNT MaxPab polyclonal antibody.

Lane 1: ARNT transfected lysate(86.79 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Immunofluorescence

Immunofluorescence of purified MaxPab antibody to ARNT on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — ARNT

Entrez GeneID [405](#)

GeneBank Accession# [NM_001668.2](#)

Protein Accession# [NP_001659.1](#)

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

Publication Reference

- [A Cyclic Peptide Inhibitor of HIF-1 Heterodimerization That Inhibits Hypoxia Signaling in Cancer Cells.](#)

Miranda E, Nordgren IK, Male AL, Lawrence CE, Hoakwie F, Cuda F, Court W, Fox KR, Townsend PA, Packham GK, Eccles SA, Tavassoli A.

Journal of the American Chemical Society 2013 Jul; 135(28):10418.

Application: PLA, Human, MCF-7, U2OS cells

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](#)