

Rabbit anti-Human ARNT Polyclonal Antibody | anti-ARNT antibody

Rabbit anti-ARNT Antibody, Affinity Purified

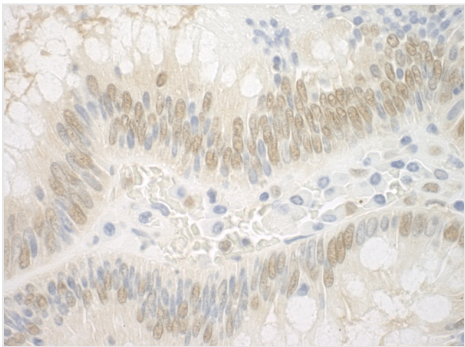
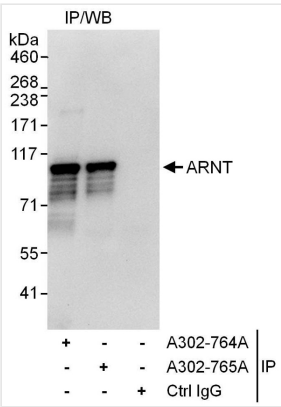
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA212003	Rabbit	Human	Immunohistochemistry, Immunoprecipitation

PRODUCT SYNONYMS

ARNT; Polyclonal Antibody; Rabbit anti-ARNT Antibody; Affinity Purified; HIF-1beta; class E basic helix-loop-helix protein 2; TANGO; Hypoxia-inducible factor 1-beta; hypoxia-inducible factor 1; beta subunit; HIF1-beta; HIF-1-beta; HIF1BETA; dioxin receptor; nuclear translocator; bHLHe2; aryl hydrocarbon receptor nuclear translocator; ARNT protein; HIF1B; Aryl hydrocarbon receptor nuclear translocator; anti-ARNT antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-ARNT antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation)
Predicted Reactivity	Bovine
Immunogen	Between 575 and 625
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt



IHC (Immunohistochemistry)
Detection of human ARNT by immunohistochemistry. Sample: FFPE section of human colon carcinoma. Antibody: Affinity purified rabbit anti-ARNT (Cat. No. AAA212003 Lot1) used at a dilution of 1:5,000 (0.2ug/ml). Detection: DAB

IP (Immunoprecipitation)
Detection of human ARNT by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP, 20% of IP loaded) from HeLa cells. Antibodies: Affinity purified rabbit anti-ARNT antibody AAA212003 used for IP at 3 ug/mg lysate. ARNT was also immunoprecipitated by rabbit anti-ARNT antibody which recognizes an upstream epitope. For blotting immunoprecipitated ARNT, was used at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.

ADDITIONAL INFORMATION

Related Product Information for anti-ARNT antibody	Aryl hydrocarbon receptor nuclear translocator (ARNT) 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. ARNT forms a complex with the ligand-bound Ah receptor, and is required for receptor function. ARNT 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 [taken from NCBI Entrez Gene (GeneID: 405)].
Product Categories/Family for anti-ARNT antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502231
NCBI GeneID	405
NCBI Accession #	NP_001659.1
NCBI GenBank Nucleotide #	NM_001668.3
UniProt Accession #	P27540; Q59ED4; Q5QP39; Q8NDC7; B2R9H1; C4AMA1; F8WAP6
Molecular Weight	86,636 Da
NCBI Official Full Name	aryl hydrocarbon receptor nuclear translocator isoform 1
NCBI Official Synonym Full Names	aryl hydrocarbon receptor nuclear translocator
NCBI Official Symbol	ARNT
NCBI Official Synonym Symbols	HIF1B; TANGO; bHLHe2; HIF1BETA; HIF-1beta; HIF1-beta; HIF-1-beta
NCBI Protein Information	aryl hydrocarbon receptor nuclear translocator; dioxin receptor, nuclear translocator; class E basic helix-loop-helix protein 2; hypoxia-inducible factor 1, beta subunit
UniProt Protein Name	Aryl hydrocarbon receptor nuclear translocator

UniProt Gene Name	ARNT
UniProt Synonym Gene Names	BHLHE2; ARNT protein; bHLHe2; HIF-1-beta; HIF1-beta
UniProt Entry Name	ARNT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/arnt-antibody-immunohistochemistry-immunoprecipitation-elisa/212003>