

Rabbit ARNT Polyclonal Antibody | anti-ARNT antibody

ARNT Antibody (Center V528)

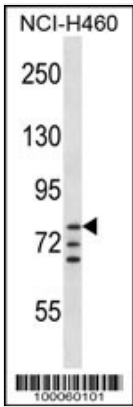
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289426	Rabbit	Human (Predicted Reactivity: Bovine)	Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

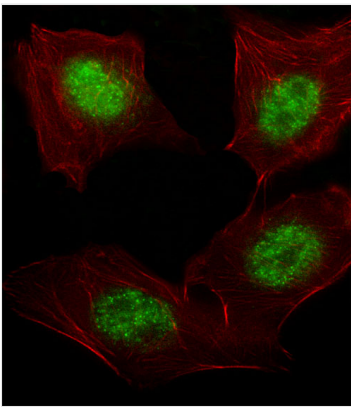
ARNT; Polyclonal Antibody; ARNT Antibody (Center V528); Aryl hydrocarbon receptor nuclear translocator; ARNT protein; Class E basic helix-loop-helix protein 2; bHLHe2; Dioxin receptor; nuclear translocator; Hypoxia-inducible factor 1-beta; HIF-1-beta; HIF1-beta; BHLHE2; anti-ARNT antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ARNT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 513-544 amino acids from the Central region of human ARNT.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	513-544
Sequence Length	787
Applicable Applications for anti-ARNT antibody	WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
ARNT Antibody (V528) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the ARNT antibody detected the ARNT protein (arrow).



IF (Immunofluorescence)
Fluorescent image of A549 cell stained with hARNT-V528. A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with hARNT primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). hARNT immunoreactivity is localized to Nucleus significantly.

ADDITIONAL INFORMATION

Related Product Information for anti-ARNT antibody	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. A t(1;12)(q21;p13) translocation, which results in a TEL-ARNT fusion protein, is associated with acute myeloblastic leukemia. Alternative splicing results in multiple transcript variants.
Product Categories/Family for anti-ARNT antibody	Cancer; Cardiovascular; Metabolism; Signal transduction
References	Otsubo, K., et al. Cancer Genet. Cytogenet. 202(1):22-26(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) : Kewley, R.J., et al. Biochem. Biophys. Res. Commun. 338(1):660-667(2005) Kewley, R.J., et al. Biochem. Biophys. Res. Commun. 338(1):660-667(2005)

NCBI AND UNIPROT INFORMATION

NCBI GI #	309747071
NCBI GeneID	405
NCBI Accession #	NP_001184254.1; NP_001659.1; NP_848514.1
NCBI GenBank Nucleotide #	NM_001197325.1
UniProt Accession #	P27540; Q59ED4; Q5QP39; Q8NDC7; B2R9H1; C4AMA1; F8WAP6
Molecular Weight	86636

NCBI Official Full Name	aryl hydrocarbon receptor nuclear translocator isoform 4
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
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://stage.aaabiotech.com/polyclonal/arnt-antibody-western-blot-immunofluorescence-elisa/289426>