Mouse ARNT Monoclonal Antibody | anti-ARNT antibody

ARNT antibody

CATALOG #	HOST	APPLICATIONS
AAA106517	**Mouse**	**Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

ARNT; Monoclonal Antibody; ARNT antibody; Monoclonal ARNT; Anti-ARNT; Aryl hydrocarbon receptor nuclear translocator; bHLHe2; HIF-1beta; Class E basic helix-loop-helix protein 2; Dioxin receptor nuclear translocator; HIF1 beta; HIF1B; TANGO; BHLHE2; ARNT protein; anti-ARNT antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	1A1
Purity/Purification	ARNT antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	789
Applicable Applications for anti-ARNT antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Biological Significance	The aryl hydrocarbon (Ah) receptor is involved in the induction of several enzymes that participate in xenobioticmetabolism. The ligand-free, cytosolic form of the Ah receptor is complexed to heat shock protein 90. Binding ofligand, which includes dioxin and polycyclic aromatic hydrocarbons, results in translocation of the ligand-bindingsubunit only to the nucleus. Induction of enzymes involved in xenobiotic metabolism occurs through binding of theligand-bound Ah receptor to xenobiotic responsive elements in the promoters of genes for these enzymes.
Cross-Reactivity	Human
Immunogen	ARNT antibody was raised in mouse using a full length recombinant protein of human ARNT (NP_001659) produced in HEK293T cells, as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES

IF (Immunofluorescence)
Immunofluorescent staining of COS7 cells transiently transfected with recombinant ARNT protein using ARNT antibody

IHC (Immunohiostchemistry)
Immunohistochemical analysis of ARNT protein in paraffin embedded Adenocarcinoma of Human colon tissue using ARNT antibody

WB (Western Blot)
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant ARNT protein (Right) or empty vector (Left) detected with ARNT antibody

ADDITIONAL INFORMATION

Related Product Information for anti-ARNT antibody	Mouse monoclonal ARNT antibody
Product Categories/Family for anti-ARNT antibody	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502231
NCBI GeneID	405
NCBI Accession #	NP_001659
NCBI GenBank Nucleotide #	NM_001668.3
UniProt Accession #	P27540; Q59ED4; Q5QP39; Q8NDC7; B2R9H1; C4AMA1; F8WAP6
Molecular Weight	86,366 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
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/arnt-antibody-clone-1a1-western-blot-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/106517