

Rabbit ARNT2 Polyclonal Antibody | anti-ARNT2 antibody

ARNT2 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284017	Rabbit	Human (Predicted Reactivity: Mouse, Rat)	Immunofluorescence, ELISA, Western Blot

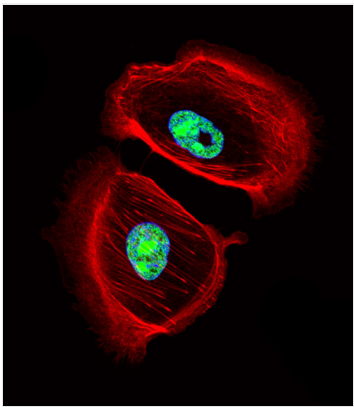
PRODUCT SYNONYMS

ARNT2; Polyclonal Antibody; ARNT2 Antibody (Center); Aryl hydrocarbon receptor nuclear translocator 2; ARNT protein 2; Class E basic helix-loop-helix protein 1; bHLHe1; BHLHE1; KIAA0307; anti-ARNT2 antibody

PRODUCT SPECIFICATIONS

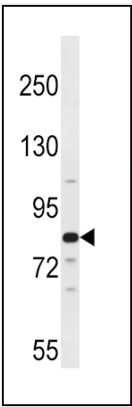
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ARNT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 249-278 amino acids from the Central region of human ARNT2.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	249-278
Sequence Length	717
Applicable Applications for anti-ARNT2 antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
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.

IMAGES



IF (Immunofluorescence)

Fluorescent confocal image of SK-BR-3 cell stained with ARNT2 Antibody (Center). SK-BR-3 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with ARNT2 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). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min).ARNT2 immunoreactivity is localized to nucleus significantly.



WB (Western Blot)

ARNT2 Antibody (Center) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the ARNT2 antibody detected the ARNT2 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-ARNT2 antibody	This gene encodes a member of the basic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily of transcription factors. The encoded protein acts as a partner for several sensor proteins of the bHLH-PAS family, forming heterodimers with the sensor proteins that bind regulatory DNA sequences in genes responsive to developmental and environmental stimuli. Under hypoxic conditions, the encoded protein complexes with hypoxia-inducible factor 1alpha in the nucleus and this complex binds to hypoxia-responsive elements in enhancers and promoters of oxygen-responsive genes. A highly similar protein in mouse forms functional complexes with both aryl hydrocarbon receptors and Single-minded proteins, suggesting addition roles for the encoded protein in the metabolism of xenobiotic compounds and the regulation of neurogenesis, respectively.
Product Categories/Family for anti-ARNT2 antibody	Cancer; Metabolism; Neuroscience
References	Ramirez, J.M., et al. Eur. J. Immunol. 40(9):2450-2459(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) : Chakrabarti, B., et al. Autism Res 2(3):157-177(2009) Ferreira, M.A., et al. Nat. Genet. 40(9):1056-1058(2008) Martinez, V., et al. Breast Cancer Res. Treat. 110(3):521-530(2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	68303555
NCBI GeneID	9915
NCBI Accession #	NP_055677.3
NCBI GenBank Nucleotide #	NM_014862.3
UniProt Accession #	Q9HBZ2; O15024; Q8IYC2; B4DIS7
Molecular Weight	78691

NCBI Official Full Name	aryl hydrocarbon receptor nuclear translocator 2
NCBI Official Synonym Full Names	aryl-hydrocarbon receptor nuclear translocator 2
NCBI Official Symbol	ARNT2
NCBI Official Synonym Symbols	WEDAS; bHLHe1
NCBI Protein Information	aryl hydrocarbon receptor nuclear translocator 2
UniProt Protein Name	Aryl hydrocarbon receptor nuclear translocator 2
UniProt Gene Name	ARNT2
UniProt Synonym Gene Names	BHLHE1; KIAA0307; ARNT protein 2; bHLHe1
UniProt Entry Name	ARNT2_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/arnt2-antibody-immunofluorescence-western-blot-elisa/284017>