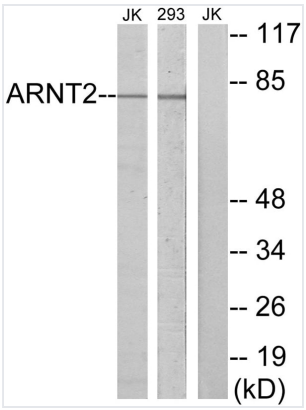
ARNT2 Antibody

PRODUCT OVERVIEW

Product Name	ARNT2, Antibody
Full Product Name	ARNT2 Antibody
Product Gene Name	anti-ARNT2 antibody
Product Synonym Names	ARNT protein 2; Aryl hydrocarbon receptor nuclear translocator 2; ARNT2; KIAA0307
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	ARNT2 antibody detects endogenous levels of total ARNT2 protein.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	77,612 Da
OMIM	606036
3D Structure	ModBase 3D Structure for Q9HBZ2
Immunogen	The antiserum was produced against synthesized peptide derived from internal of human ARNT2.
Product Categories/Family for anti-ARNT2 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ARNT2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ARNT2 antibody	WB: 1:500~1:1000 ELISA: 1:20000
Related Product Information for anti-ARNT2 antibody	MBS856471 is an antibody targeting ARNT2. Also known as ARNT2 Antibody. Reactive in Human, Mouse, Rat.
Product References and Citations for anti-ARNT2 antibody	Barrow L.L., Teratology 66:85-90(2002). Nagase T., DNA Res. 4:141-150(1997). The MGC Project Team, Genome Res. 14:2121-2127(2004).
Other Notes	Small volumes of anti-ARNT2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-ARNT2 antibody
Western blot analysis of extracts from Jurkat cells and 293 cells, using ARNT2 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARNT2. It may not necessarily be applicable to this product.

NCBI GI #	68303555
NCBI GeneID	9915
NCBI Accession #	NP_055677.3
UniProt Primary Accession #	Q9HBZ2
UniProt Secondary Accession #	O15024; Q8IYC2; B4DIS7
UniProt Related Accession #	Q9HBZ2
GenBank Nucleotide #	NM_014862.3
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
UniProt Protein Name	Aryl hydrocarbon receptor nuclear translocator 2
UniProt Synonym Protein Names	Class E basic helix-loop-helix protein 1; bHLHe1
Protein Family	Aryl hydrocarbon receptor nuclear translocator
UniProt Gene Name	ARNT2
UniProt Synonym Gene Names	BHLHE1; KIAA0307; ARNT protein 2; bHLHe1
NCBI Protein Information	aryl hydrocarbon receptor nuclear translocator 2
NCBI Summary for ARNT2	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 additional roles for the encoded protein in the metabolism of xenobiotic compounds and the regulation of neurogenesis, respectively. [provided by RefSeq, Dec 2013]
UniProt Comments for ARNT2	Transcription factor that plays a role in the development of the hypothalamo-pituitary axis, postnatal brain growth, and visual and renal function (PubMed:24022475). Specifically recognizes the xenobiotic response element (XRE).
Research Articles on ARNT2	**1.** Attenuated ARNT2 expression in HCC827 cells greatly promoted tumor growth.

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