ARNT Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ARNT, Monoclonal Antibody
Full Product Name	ARNT (Aryl Hydrocarbon Receptor Nuclear Translocator, ARNT Protein, Class E Basic Helix-loop-helix Protein 2, bHLHe2, Dioxin Receptor, Nuclear T Hypoxia-inducible Factor 1-beta, HIF-1-beta, HIF1-beta, BHLHE2) (MaxLight 650)
Product Gene Name	anti-ARNT antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3D10
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ARNT.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of produc original vial prior to removing the cap.
Molecular Weight	86,366 Da
Immunogen	Partial recombinant corresponding to aa1-110 from human ARNT (AAH60838) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAATTANPEMTSDVPSLGPAIASGNSGPGIQGGGAIVQRAIKRRPGLDFDDDGEGNSKFLRCDDDQMSNDKERFARSDDEQSSADKERLARENHSEIEF
Conjugate	MaxLight650
Product Categories/Family for anti-ARNT antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-ARNT antibody	FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-ARNT antibody	IF: 10ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-ARNT antibody	MBS6220958 is an antibody targeting ARNT. Also known as ARNT (Aryl Hydrocarbon Receptor Nuclear Translocator, ARNT Protein, Class E Basic He Protein 2, bHLHe2, Dioxin Receptor, Nuclear Translocator, Hypoxia-inducible Factor 1-beta, HIF-1-beta, HIF1-beta, BHLHE2) (MaxLight 650). Reactive Host: Mouse.

Other Notes	Small volumes of anti-ARNT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess 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 apply.

ADDITIONAL DETAILS

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

NCBI GI #	38173805
NCBI GeneID	405
NCBI Accession #	BC060838
NCBI Related Accession #	AAH60838
UniProt Secondary Accession #	Q59ED4; Q5QP39; Q8NDC7; B2R9H1; C4AMA1; F8WAP6
UniProt Related Accession #	P27540
NCBI Official Full Name	Homo sapiens aryl hydrocarbon receptor nuclear translocator, mRNA
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
Protein Family	Aryl hydrocarbon receptor nuclear translocator
NCBI Protein Information	aryl hydrocarbon receptor nuclear translocator; class E basic helix-loop-helix protein 2; dioxin receptor, nuclear translocator; hypoxia-inducible factor 1, beta subunit
NCBI Summary for ARNT	This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC domain. The encoded protein binds to ligand-bound aryl hydrocarbon receptor and aids in the movement of this complex to the nucleus, where it promotes the expression of genes involved in xenobiotic metabolism. This protein is also a co-factor for transcriptional regulation by hypoxia-inducible factor 1. Chromosomal translocation of this locus with the ETV6 (ets variant 6) gene on chromosome 12 have been described in leukemias. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2013]
Research Articles on ARNT	**1.** knockdown of ARNT in cancer cells reduced the proliferation rate and the transformation ability of those cells.
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