

Recombinant Human ARNT, GST-tagged

Cat. No. ARNT-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ARNT(1 a.a. - 789 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	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.
Molecular Mass	113 kDa
AA Sequence	MAATTANPEMTSDVPSLGPAIASGNSGPGIQGGGAIVQRAIKRRPGLDFDDDDGEGN SKFLRCDDDQMSNDKERFA RSDDEQSSADKERLARENHSEIERRRRNKMTAYITEL SDMVPTCSALARKPDKLTILRMAVSHMKSLRGTGNTST DGSYKPSFLTDQELKHLIL EAADGFLFIVSCETGRVVYVSDSVTPVLNQPQSEWFGSTLYDQVHPDDVDKLREQL STSENALTGRILDKTGTVKKEGQQSSMRMCMGSRRSFICRMRCGSSSVDPVSVN RLSFVRNRCRNLGSGVKDGE PHFVVVHCTGYIKAWPPAGVSLPDDDDPEAGQGSKF

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CLVAIGRLQVTSSPNCTDMSNVCQPTEFISRHNIEGIFTF VDHRCVATVGYQPQELL
 GKNIVEFCHPEDQQLLRDSFQQVVKLGQVLSVMFRFRSKNQEWLWMRTSSFTFQ
 NPY SDEIEYIICTNTNVKNSSQEPRPTLSNTIQRPQLGPTANLPLEMGSGQLAPRQQ
 QQQTELDMVPGRDGLASYNHS QVVQPVTTTGPEHSPLEKSDGLFAQDRDPRFS
 EIYHNINADQSKGISSSTVPATQQLFSGNTFPPTPRPAENF RNSGLAPPVTIVQPS
 ASAGQMLAQISRHSNPTQGATPTWPTTTRSGFSAQQVATQATAKTRTSQFGVGSF
 QTPSS FSSMSLPGAPTASPGAAAYPSLTNRGSNFAPETGQTAGQFQTRTAEGVGV
 WPQWQGQQPHHRSSSEQHVQPPA QQPGQPEVFQEMLSMGLDQSNSYNNEE
 FPDLTMFPPFSE

Applications ELISA; WB-Re; AP; Array

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [ARNT aryl hydrocarbon receptor nuclear translocator \[Homo sapiens \(human\) \]](#)

Official Symbol ARNT

Synonyms ARNT; aryl hydrocarbon receptor nuclear translocator; bHLHe2; HIF 1beta; dioxin receptor, nuclear translocator; class E basic helix-loop-helix protein 2; hypoxia-inducible factor 1, beta subunit; HIF1B; TANGO; HIF1BETA; HIF-1beta; HIF1-beta; HIF-1-beta

Gene ID [405](#)

mRNA Refseq [NM_001668](#)

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Protein Refseq	NP_001659
MIM	126110
UniProt ID	P27540
Chromosome Location	1q21
Pathway	AhR pathway; Cellular response to hypoxia; Chemical carcinogenesis
Function	contributes_to RNA polymerase II distal enhancer sequence-specific DNA binding transcription factor activity; aryl hydrocarbon receptor activity; aryl hydrocarbon receptor binding

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