

Human ARNT Knockdown Cell Lysate

Cat. No. ARNT-054HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ARNT Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
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.
Form	Cell-Tissue Lysis buffer
Molecular Mass	87 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.

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Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg ARNT KD HeLa cell lysate
Protein Families	Druggable Genome, Transcription Factors
Protein Pathways	Pathways in cancer, Renal cell carcinoma
Lysate QC	RT-qPCR; Western Blotting (WB)

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_001197325
Protein Refseq	NP_001184254
MIM	126110

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UniProt ID

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