

## Human ARNT Knockdown Cell Lysate

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WB-validated ARNT Knockdown HeLa Cell Lysate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HeLa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 87 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Notes</b>            | <p>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.</p>                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>          | Store at -20 centigrade for two years.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ARNT aryl hydrocarbon receptor nuclear translocator [ Homo sapiens (human) ]                                                                                                                                                                                  |
| <b>Official Symbol</b> | ARNT                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 405                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_001197325                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_001184254                                                                                                                                                                                                                                                  |
| <b>MIM</b>             | 126110                                                                                                                                                                                                                                                        |

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**UniProt ID**

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