

**ARNT (aa69-82) Antibody (internal region, near N-Term)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3671a**

**Specification**

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**ARNT (aa69-82) Antibody (internal region, near N-Term) - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB  |
| Primary Accession | <a href="#">P27540</a>  |
| Other Accession   | <a href="#">NP_001659.1</a> , <a href="#">405</a> , <a href="#">11863 (mouse)</a> , <a href="#">25242 (rat)</a> |
| Reactivity        | Human   |
| Predicted         | Mouse, Rat, Dog   |
| Host              | Goat  |
| Clonality         | Polyclonal  |
| Concentration     | 0.5 mg/ml   |
| Isotype           | IgG   |
| Calculated MW     | 86636   |

**ARNT (aa69-82) Antibody (internal region, near N-Term) - Additional Information**

**Gene ID** 405

**Other Names**

Aryl hydrocarbon receptor nuclear translocator, ARNT protein, Class E basic helix-loop-helix protein 2, bHLHe2, Dioxin receptor, nuclear translocator, Hypoxia-inducible factor 1-beta, HIF-1-beta, HIF1-beta, ARNT, BHLHE2

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ARNT (aa69-82) Antibody (internal region, near N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ARNT (aa69-82) Antibody (internal region, near N-Term) - Protein Information**

**Name** ARNT ([HGNC:700](#))

**Synonyms** BHLHE2

**Function**

Required for activity of the AHR. Upon ligand binding, AHR translocates into the nucleus, where it heterodimerizes with ARNT and induces transcription by binding to xenobiotic response elements (XRE). Not required for the ligand-binding subunit to translocate from the cytosol to the nucleus

after ligand binding (PubMed:<a href="http://www.uniprot.org/citations/34521881" target="\_blank">34521881</a>). The complex initiates transcription of genes involved in the regulation of a variety of biological processes, including angiogenesis, hematopoiesis, drug and lipid metabolism, cell motility and immune modulation (Probable). The heterodimer binds to core DNA sequence 5'- TACGTG-3' within the hypoxia response element (HRE) of target gene promoters and functions as a transcriptional regulator of the adaptive response to hypoxia (By similarity). The heterodimer ARNT:AHR binds to core DNA sequence 5'-TGCGTG-3' within the dioxin response element (DRE) of target gene promoters and activates their transcription (PubMed:<a href="http://www.uniprot.org/citations/28396409" target="\_blank">28396409</a>).

#### **Cellular Location**

Nucleus.

#### **ARNT (aa69-82) Antibody (internal region, near N-Term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **ARNT (aa69-82) Antibody (internal region, near N-Term) - Images**



AF3671a (2 µg/ml) staining of HepG2 nuclear lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **ARNT (aa69-82) Antibody (internal region, near N-Term) - Background**

This antibody is expected to recognize all reported isoform 1 (NP\_001659.1) only.

#### **ARNT (aa69-82) Antibody (internal region, near N-Term) - References**

ETV6-ARNT fusion in a patient with childhood T lymphoblastic leukemia. Otsubo K, Kanegane H, Eguchi M, Eguchi-Ishimae M, Tamura K, Nomura K, Abe A, Ishii E, Miyawaki T. Cancer Genet Cytogenet. 2010 Oct 1;202(1):22-6. PMID: 20804916