

Recombinant Human ARNT2 protein, GST-tagged

Cat. No. ARNT2-841H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ARNT2 partial ORF (NP_055677.3, 464 a.a. - 563 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes a member of the basic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily of transcription factors. The encoded protein acts as a partner for several sensor proteins of the bHLH-PAS family, forming heterodimers with the sensor proteins that bind regulatory DNA sequences in genes responsive to developmental and environmental stimuli. Under hypoxic conditions, the encoded protein complexes with hypoxia-inducible factor 1alpha in the nucleus and this complex binds to hypoxia-responsive elements in enhancers and promoters of oxygen-responsive genes. A highly similar protein in mouse forms functional complexes with both aryl hydrocarbon receptors and Single-minded proteins, suggesting additional roles for the encoded protein in the metabolism of xenobiotic compounds and the regulation of neurogenesis, respectively. [provided by RefSeq, Dec 2013]
Molecular Mass	36.74 kDa
AA Sequence	VPVPNLPAGVHEAGKSVEKADAIFSQERDPRFAEMFAGISASEKKMMSSASAAGTQ QIYSQGSPFPGHSGKAFSSSVHVPGVNDIQSSSSTGQNMSQI
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);

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Antibody Production; Protein Array

Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

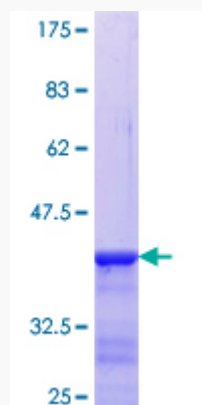
GENE INFORMATION

Gene Name	ARNT2 aryl-hydrocarbon receptor nuclear translocator 2 [Homo sapiens]
Official Symbol	ARNT2
Synonyms	ARNT2; aryl-hydrocarbon receptor nuclear translocator 2; aryl hydrocarbon receptor nuclear translocator 2; bHLHe1; KIAA0307; ARNT protein 2; class E basic helix-loop-helix protein 1;
Gene ID	9915
mRNA Refseq	NM_014862
Protein Refseq	NP_055677
MIM	606036
UniProt ID	Q9HBZ2

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12.5% SDS-PAGE Stained with Coomassie Blue.

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