

Recombinant Human ARNT 293 Cell Lysate

Cat. No. ARNT-8692HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for aryl hydrocarbon receptor nuclear translocator (ARNT), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	ARNT aryl hydrocarbon receptor nuclear translocator [Homo sapiens]
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
UniProt ID	P27540
Chromosome Location	1q21
Pathway	Angiogenesis, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem; Hypoxic and oxygen homeostasis regulation of HIF-1-alpha, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Renal cell carcinoma,

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organism-specific biosystem;

Function

aryl hydrocarbon receptor activity; aryl hydrocarbon receptor binding; protein binding; protein heterodimerization activity; contributes_to sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; contributes_to sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; signal transducer activity; transcription coactivator activity; transcription factor binding;

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