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Product datasheet for TA501249S

HIF1 beta (ARNT) Mouse Monoclonal Antibody [Clone ID: OTI2C7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2C7
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ARNT (NP_001659) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	86.5 kDa
Gene Name:	aryl hydrocarbon receptor nuclear translocator
Database Link:	<u>NP_001659</u> <u>Entrez Gene 11863 MouseEntrez Gene 25242 RatEntrez Gene 405 Human</u> <u>P27540</u>



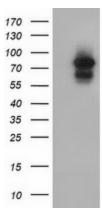
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Service Mire State (ARNT) Mouse Monoclonal Antibody [Clone ID: OTI2C7] – TA501249S

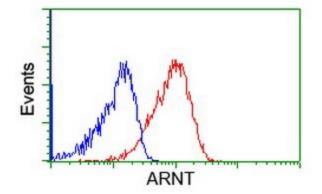
Background:	The aryl hydrocarbon (Ah) receptor is involved in the induction of several enzymes that participate in xenobiotic metabolism. The ligand-free, cytosolic form of the Ah receptor is complexed to heat shock protein 90. Binding of ligand, which includes dioxin and polycyclic aromatic hydrocarbons, results in translocation of the ligand-binding subunit only to the nucleus. Induction of enzymes involved in xenobiotic metabolism occurs through binding of the ligand-bound Ah receptor to xenobiotic responsive elements in the promoters of genes for these enzymes. This gene encodes a protein that forms a complex with the ligand-bound Ah receptor, and is required for receptor function. The encoded protein has also been identified as the beta subunit of a heterodimeric transcription factor, hypoxia-inducible factor 1 (HIF1). A t(1;12)(q21;p13) translocation, which results in a TEL-ARNT fusion protein, is associated with acute myeloblastic leukemia. Three alternatively spliced variants encoding different isoforms have been described for this gene. [provided by RefSeq]
Synonyms:	bHLHe2; HIF-1-beta; HIF-1beta; HIF1-beta; HIF1B; HIF1BETA; TANGO

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Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Pathways in cancer, Renal cell carcinoma

Product images:

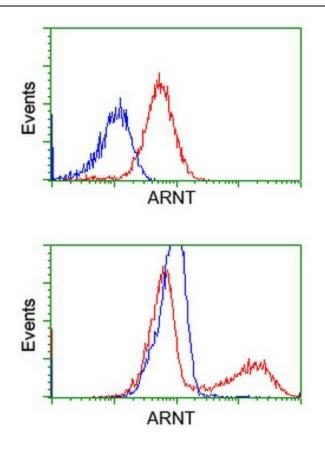


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ARNT ([RC216724], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ARNT. Positive lysates [LY400636] (100ug) and [LC400636] (20ug) can be purchased separately from OriGene.



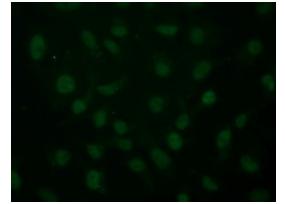
Flow cytometric Analysis of Jurkat cells, using anti-ARNT antibody ([TA501249]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).

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Flow cytometric Analysis of Hela cells, using anti-ARNT antibody ([TA501249]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).

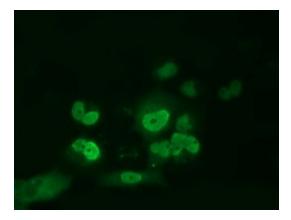
HEK293T cells transfected with either [RC216724] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ARNT antibody ([TA501249]), and then analyzed by flow cytometry.



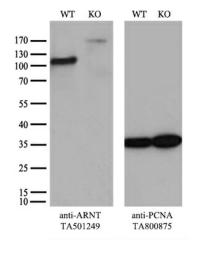
Immunofluorescent staining of HeLa cells using anti-ARNT mouse monoclonal antibody ([TA501249]).

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Anti-ARNT mouse monoclonal antibody ([TA501249]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ARNT ([RC216724]).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and ARNT-Knockout HeLa cells (KO, Cat# [LC834429]) were separated by SDS-PAGE and immunoblotted with anti-ARNT monoclonal antibody [TA501249] (1:100). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.

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