

OriGene Technologies, Inc.

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Product datasheet for TA501249

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

Product data:

| Product Type: | Primary Antibodies |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clone Name: | OTI2C7 |
| Applications: | FC, IF, WB |
| Recommend Dilution: | WB 1:2000, IF 1:100, FLOW 1:100 |
| Reactivity: | Human |
| 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) |
| Predicted Protein Size: | 86.5 kDa |
| Gene Name: | aryl hydrocarbon receptor nuclear translocator |
| Database Link: | <u>NP_001659 Entrez Gene 405 Human</u> |
| 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 |

associated with acute myeloblastic leukemia. Three alternatively spliced variants encoding different isoforms have been described for this gene. [provided by RefSeq]

1 (HIF1). A t(1;12)(q21;p13) translocation, which results in a TEL-ARNT fusion protein, is



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Synonyms:

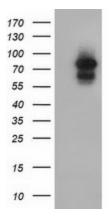
bHLHe2; HIF-1-beta; HIF-1beta; HIF1-beta; HIF1B; HIF1BETA; TANGO

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Pathways in cancer, Renal cell carcinoma

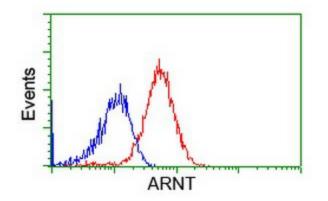
Product images:

Events



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.

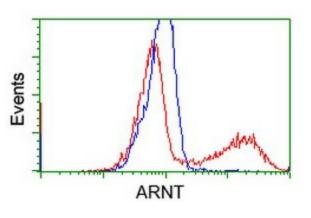
Flow cytometric Analysis of Jurkat cells, using anti-ARNT antibody (TA501249), (Red), compared to a nonspecific negative control antibody ([TA50011]), (Blue).



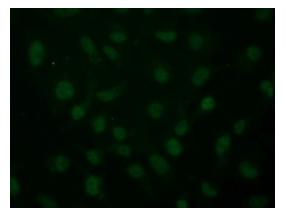
ARNT

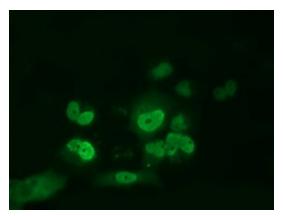
Flow cytometric Analysis of Hela cells, using anti-ARNT antibody (TA501249), (Red), compared to a nonspecific negative control antibody ([TA50011]), (Blue).

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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.

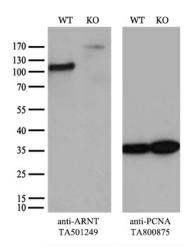




Immunofluorescent staining of HeLa cells using anti-ARNT mouse monoclonal antibody (TA501249).

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

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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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