

#### OriGene Technologies, Inc.

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# Product datasheet for TA501150

## HIF1 beta (ARNT) Mouse Monoclonal Antibody [Clone ID: OTI1D1]

### **Product data:**

Product Type:	Primary Antibodies	
Clone Name:	OTI1D1	
Applications:	FC, IF, WB	
Recommended Dilution:	: WB 1:2000, IF 1:100, FLOW 1:100	
Reactivity:	Human, Mouse, Rat	
Host:	Mouse	
lsotype:	be: lgG1	
Clonality:	Monoclonal	
Immunogen:	Full length human recombinant protein of human ARNT (NP_001659) produced in HEK293T cell.	
Formulation:	ation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.	
Concentration:	0.55 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:	ility: Stable for 12 months from date of receipt.	
Predicted Protein Size:	ed Protein Size: 86.5 kDa	
Gene Name:	Name: aryl hydrocarbon receptor nuclear translocator	
Database Link:	atabase Link: <u>NP_001659</u> Entrez Gene 11863 MouseEntrez Gene 25242 RatEntrez Gene 405 Human <u>P27540</u>	



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### Serigene HIF1 beta (ARNT) Mouse Monoclonal Antibody [Clone ID: OTI1D1] – TA501150

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.

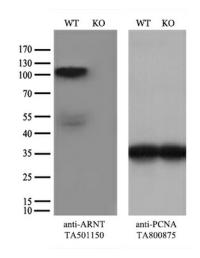
Synonyms:bHLHe2; HIF-1-beta; HIF-1beta; HIF1-beta; HIF1B; HIF1BETA; TANGOProtein Families:Druggable Genome, Transcription FactorsProtein Pathways:Pathways in cancer, Renal cell carcinoma

#### **Product images:**

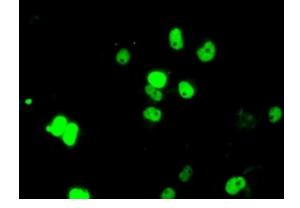
188	-
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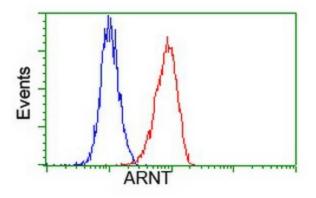
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ARNT ([RC216724], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ARNT. Positive lysates [LY400636] (100ug) and [LC400636] (20ug) can be purchased separately from OriGene.

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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 TA501150 (1:100). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.

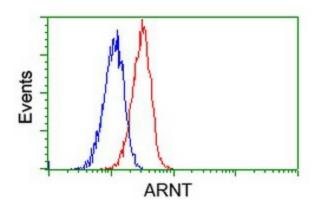




Anti-ARNT mouse monoclonal antibody (TA501150) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ARNT ([RC216724]).

Flow cytometric Analysis of Hela cells, using anti-ARNT antibody (TA501150), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).

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Flow cytometric Analysis of Jurkat cells, using anti-ARNT antibody (TA501150), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).

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