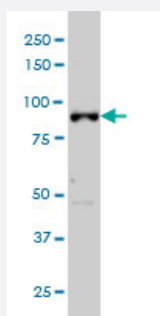


ARNT monoclonal antibody (M01), clone 3D10

Catalog # H00000405-M01

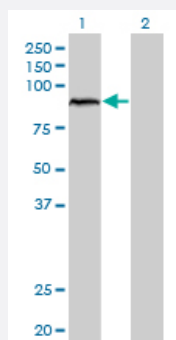
Size 100 ug

Applications



Western Blot (Cell lysate)

ARNT monoclonal antibody (M01), clone 3D10 Western Blot analysis of ARNT expression in HeLa S3 NE (Cat # L013V3).

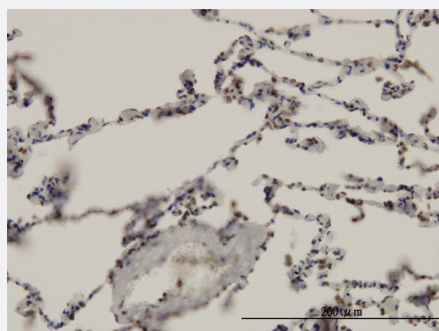


Western Blot (Transfected lysate)

Western Blot analysis of ARNT expression in transfected 293T cell line by ARNT monoclonal antibody (M01), clone 3D10.

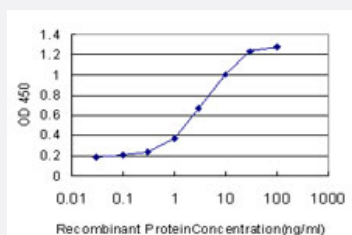
Lane 1: ARNT transfected lysate(86.6 KDa).

Lane 2: Non-transfected lysate.



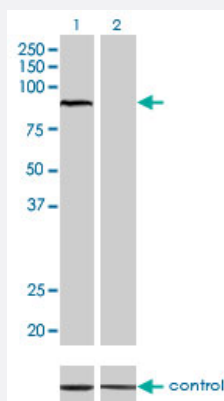
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to ARNT on formalin-fixed paraffin-embedded human lung. [antibody concentration 3 ug/ml]



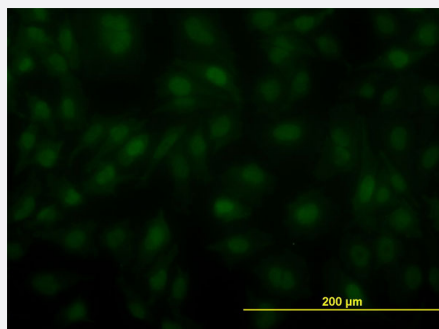
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ARNT is approximately 0.03ng/ml as a capture antibody.



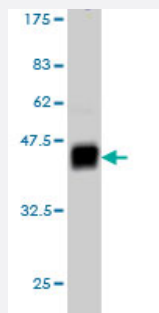
RNAi Knockdown (Antibody validated)

Western blot analysis of ARNT over-expressed 293 cell line, cotransfected with ARNT Validated Chimera RNAi (Cat # H00000405-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with ARNT monoclonal antibody (M01), clone 3D10 (Cat # H00000405-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Immunofluorescence

Immunofluorescence of monoclonal antibody to ARNT on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (37.73 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant ARNT.
Immunogen	ARNT (AAH60838, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAATTANPEMTSDVPSLGPALASGNSGPGIQGGGAMQRAIKRRPGLDFDDDGEGNSKFLRCDD DQMSNDKERFARSDDEQSSADKERLARENHSEIERRRRNKMTAYIT
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (37.73 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

ARNT monoclonal antibody (M01), clone 3D10 Western Blot analysis of ARNT expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ARNT expression in transfected 293T cell line by ARNT monoclonal antibody (M01), clone 3D10.

Lane 1: ARNT transfected lysate(86.6 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to ARNT on formalin-fixed paraffin-embedded human lung. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ARNT is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of ARNT over-expressed 293 cell line, cotransfected with ARNT Validated Chimera RNAi (Cat # H00000405-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with ARNT monoclonal antibody (M01), clone 3D10 (Cat # H00000405-M01). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

- Immunofluorescence

Immunofluorescence of monoclonal antibody to ARNT on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — ARNT

Entrez GeneID [405](#)

GeneBank Accession# [BC060838](#)

Protein Accession# [AAH60838](#)

Gene Name ARNT

Gene Alias HIF-1beta, HIF1B, HIF1BETA, TANGO, bHLHe2

Gene Description aryl hydrocarbon receptor nuclear translocator

Omim ID [126110](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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]

Other Designations OTTHUMP00000032943[dioxin receptor, nuclear translocator|hypoxia-inducible factor 1, beta subunit]

Pathway

- [Pathways in cancer](#)
- [Renal cell carcinoma](#)

Disease

- [Abortion](#)
- [Adenocarcinoma](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Infertility](#)
- [Lung Neoplasms](#)
- [Parkinson disease](#)
- [Prediabetic State](#)
- [Prostate cancer](#)
- [Pulmonary Disease](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)