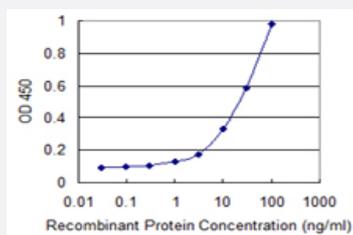


# ARNT2 monoclonal antibody (M03), clone 1B2

Catalog # H00009915-M03

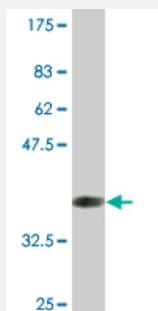
Size 100 ug

## Applications



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ARNT2 is 0.3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

## Specification

### Product Description

Mouse monoclonal antibody raised against a partial recombinant ARNT2.

### Immunogen

ARNT2 (NP\_055677.3, 464 a.a. ~ 563 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

### Sequence

VPVPNLPAGVHEAGKSVEKADAIIFSQERDPRFAEMFAGISASEKKMMSSASAAGTQQYSQGSP  
FPSGHSKGAFSSSVVHVPGVNDIQSSSSTGQNMSQI

### Host

Mouse

### Reactivity

Human

### Isotype

IgG2b Kappa

<b>Quality Control Testing</b>	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
<b>Storage Buffer</b>	In 1x PBS, pH 7.4
<b>Storage Instruction</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ARNT2 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — ARNT2

<b>Entrez GeneID</b>	<a href="#">9915</a>
<b>GeneBank Accession#</b>	<a href="#">NM_014862</a>
<b>Protein Accession#</b>	<a href="#">NP_055677.3</a>
<b>Gene Name</b>	ARNT2
<b>Gene Alias</b>	KIAA0307, bHLHe1
<b>Gene Description</b>	aryl-hydrocarbon receptor nuclear translocator 2
<b>Omim ID</b>	<a href="#">606036</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

**Gene Summary**

This gene encodes a member of the basic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily of transcription factors. The encoded protein acts as a partner for several sensor proteins of the bHLH-PAS family, forming heterodimers with the sensor proteins that bind regulatory DNA sequences in genes responsive to developmental and environmental stimuli. Under hypoxic conditions, the encoded protein complexes with hypoxia-inducible factor 1alpha in the nucleus and this complex binds to hypoxia-responsive elements in enhancers and promoters of oxygen-responsive genes. A highly similar protein in mouse forms functional complexes with both aryl hydrocarbon receptors and Single-minded proteins, suggesting additional roles for the encoded protein in the metabolism of xenobiotic compounds and the regulation of neurogenesis, respectively. [provided by RefSeq]

**Other Designations**

aryl hydrocarbon receptor nuclear translocator 2

**Pathway**

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

**Disease**

- [Asperger Syndrome](#)
- [Autistic Disorder](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Social Perception](#)