

# Product Information

## MemDX™ Membrane Protein Human ARNT (Aryl hydrocarbon receptor nuclear translocator) for Antibody Discovery

Cat. No.: **MP0062X**

This product is for research use only and is not intended for diagnostic use.

This product is a 113 kDa Human ARNT membrane protein expressed in *in vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

ARNT

#### Protein Length

Full-length

#### Molecular Weight

113 kDa

#### Sequence

MAATTANPEMTSDVPSLGPAIASGNSGPGIQGGGAIVQRAIKRRPGLDFDDDGEGNSKFLRCDDQMSNDKERFARSDDEQSSAD

### Product Description

#### Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

#### Expression Systems

*in vitro* wheat germ expression system

#### Tag

GST-tag at N-terminal

#### Form

Liquid

#### Purification

Glutathione Sepharose 4 Fast Flow

#### Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

### Storage

Store at +4°C for up to one week or several months at -80°C

### Target

#### Target Protein

ARNT

#### Full Name

Aryl hydrocarbon receptor nuclear translocator

#### Introduction

This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC domain. The encoded protein binds to ligand-bound aryl hydrocarbon receptor and aids in the movement of this complex to the nucleus, where it promotes the expression of genes involved in xenobiotic metabolism. This protein is also a co-factor for transcriptional regulation by hypoxia-inducible factor 1. Chromosomal translocation of this locus with the ETV6 (ets variant 6) gene on chromosome 12 have been described in leukemias. Alternative splicing results in multiple transcript variants

#### Alternative Names

HIF-1beta; HIF1B; HIF1BETA; TANGO; bHLHe2; OTTHUMP00000032943; dioxin receptor, nuclear translocator; hypoxia-inducible factor 1, beta subunit

#### Gene ID

[405](#)

#### UniProt ID

[P27540](#)