

For Research Use Only

# ARNT2 Polyclonal antibody, PBS Only

Catalog Number: 12810-1-PBS

Featured Product



## Basic Information

**Catalog Number:**

12810-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG3536

**GenBank Accession Number:**

BC036099

**GeneID (NCBI):**

9915

**UNIPROT ID:**

Q9HBZ2

**Full Name:**

aryl-hydrocarbon receptor nuclear translocator 2

**Calculated MW:**

716 aa, 79 kDa

**Observed MW:**

80-85 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, IHC, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## Background Information

Aryl-hydrocarbon receptor nuclear translocator 2 (ARNT2), is a member of the basic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily of transcription factors. It specifically recognizes the xenobiotic response element (XRE). ARNT2 plays an important role in normal glucose handling in pancreatic beta cell function in humans and mice. ARNT2 proteins are dimeric partners for other PAS proteins such as HIF and SIM. ARNT2 and the other ARNT family members, e.g., ARNT, hypoxin inducible factor 1 $\alpha$  (HIF1 $\alpha$ ), HIF2 $\alpha$ , and aryl hydrocarbon receptor (Ahr), are thought to function as heterodimers, and regulate the expression, and thereby the function, of many genes. Under hypoxic conditions, it complexes with hypoxia-inducible factor 1 $\alpha$  in the nucleus and this complex binds to hypoxia-responsive elements in enhancers and promoters of oxygen-responsive genes. Modulation of ARNT2 in pancreatic beta cells affects glucose stimulated INS secretion (GSIS). This antibody is a rabbit polyclonal antibody raised against residues near the C terminus of human ARNT2.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

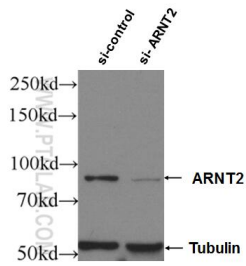
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

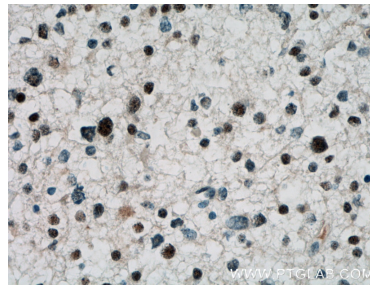
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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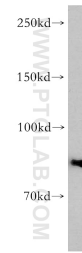
## Selected Validation Data



WB result of ARNT2 antibody (12810-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ARNT2 transfected Jurkat cells. This data was developed using the same antibody clone with 12810-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12810-1-AP (ARNT2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12810-1-PBS in a different storage buffer formulation.



HEK-293 cells were subjected to SDS PAGE followed by western blot with 12810-1-AP (ARNT2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12810-1-PBS in a different storage buffer formulation.