

## Product datasheet for **AP20460PU-M**

### ARNT2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Arnt 2 protein. (region surrounding Met50)
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 79 kDa
Gene Name:	aryl hydrocarbon receptor nuclear translocator 2
Database Link:	<a href="#">Entrez Gene 11864 Mouse</a> <a href="#">Entrez Gene 25243 Rat</a> <a href="#">Entrez Gene 9915 Human</a> <a href="#">Q9HBZ2</a>



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**Background:**

AhR, Arnt 1, Arnt 2 and BMAL1 are members of a family of transcription factors that contain a basic helix-loop-helix motif and a common “PAS” motif. The aromatic (aryl) hydrocarbon receptor, AhR, is a ligand dependent transcription factor that interacts with specific DNA sequences termed xenobiotic responsive elements (XREs) to activate several genes including CYP1A1, glutathione S-transferase Ya subunit and DT-diaphorase. The Ah receptor nuclear translocator proteins (Arnt 1 or Arnt 2) are required for ligand-dependent nuclear translocation of the Ah receptor and are also necessary for Ah receptor binding to the XRE element. BMAL1 (Brain and Muscle Arnt-like protein 1), also designated Arnt 3, TIC, JAP3 or MOP-3, has been shown to dimerize with Clock and bind to the promoter region of mPer1, suggesting that this protein plays a role in regulation of circadian oscillation in mammals.

**Synonyms:**

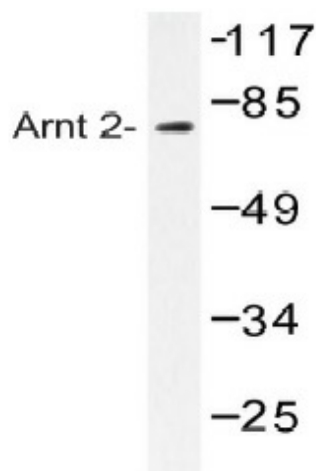
KIAA0307

**Protein Families:**

Druggable Genome, Transcription Factors

**Protein Pathways:**

Pathways in cancer, Renal cell carcinoma

**Product images:**


Western blot (WB) analysis of Arnt 2 antibody (Cat.-No.: [AP20460PU-N]) in extracts from Jurkat cells.