

Product datasheet for **TA343757**

ARNT2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for Anti-ARNT2 antibody is: synthetic peptide directed towards the N-terminal region of Human ARNT2. Synthetic peptide located within the following region: VTLPVAPMAATGQVRMAGAMPARGGKRRSGMDFDEDEDGEGPSKFSRENHS
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	23 kDa
Gene Name:	aryl hydrocarbon receptor nuclear translocator 2
Database Link:	NP_055677 Entrez Gene 9915 Human Q9HBZ2



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Background:

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.

Synonyms:

bHLHe1; WEDAS

Note:

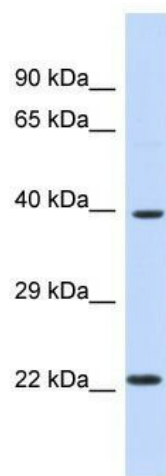
Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Sheep: 100%; Bovine: 100%; Guinea pig: 100%; Rabbit: 93%; Zebrafish: 86%

Protein Families:

Druggable Genome, Transcription Factors

Protein Pathways:

Pathways in cancer, Renal cell carcinoma

Product images:

Host: Rabbit; Target Name: ARNT2; Sample Tissue: HeLa Whole cell lysates; Antibody Dilution: 1.0 ug/ml