

## ARG66604 anti-ARNT2 antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes ARNT2
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ARNT2
Species	Human
Immunogen	Synthetic peptide within aa. 40-120 of Human ARNT2.
Conjugation	Un-conjugated
Alternate Names	WEDAS; Class E basic helix-loop-helix protein 1; ARNT protein 2; bHLHe1; Aryl hydrocarbon receptor nuclear translocator 2

### Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	IHC-P	1:100 - 1:300
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: High-pressure and temperature Tris-EDTA buffer (pH 8.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 80 kDa	

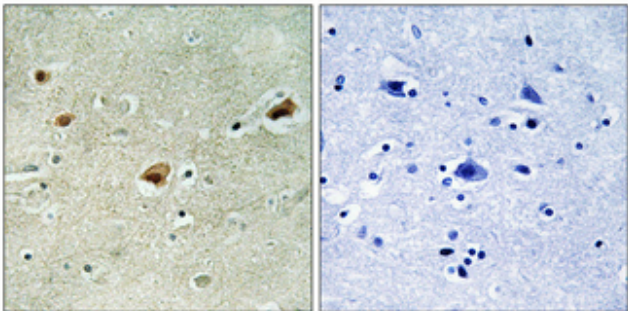
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

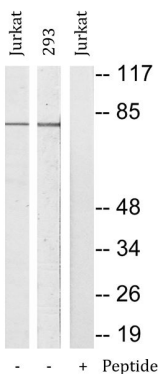
Gene Symbol	ARNT2
Gene Full Name	aryl-hydrocarbon receptor nuclear translocator 2
Background	This gene encodes a member of the basic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily of transcription factors. The encoded protein acts as a partner for several sensor proteins of the bHLH-PAS family, 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. [provided by RefSeq, Dec 2013]
Function	Transcription factor that plays a role in the development of the hypothalamo-pituitary axis, postnatal brain growth, and visual and renal function. Specifically recognizes the xenobiotic response element (XRE). [UniProt]
Calculated Mw	79 kDa
Cellular Localization	Nucleus. [UniProt]

Images



ARG66604 anti-ARNT2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human brain tissue stained with ARG66604 anti-ARNT2 antibody at 1:100 dilution (4°C, overnight). Antigen Retrieval: High-pressure and temperature Tris-EDTA buffer (pH 8.0). Negative control (right) was pre-absorbed by immunogen peptide.



ARG66604 anti-ARNT2 antibody WB image

Western blot: Jurkat and 293 cell lysates stained with ARG66604 anti-ARNT2 antibody. The lane on the right was blocked with the synthetic peptide.