

ARNT2 Polyclonal Antibody

Catalog No.	A8060	Category	Polyclonal Antibodies
Applications	WB, IHC	Observed MW	79-85kDa
Cross-reactivity	Human, Mouse, Rat	Calculated MW	77kDa/78kDa

Immunogen Information

Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 440-690 of human ARNT2 (NP_055677.3).
Gene ID	9915
Swiss prot	Q9HBZ2
Synonyms	ARNT2; WEDAS; bHLHe1; aryl hydrocarbon receptor nuclear translocator 2

Product information

Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

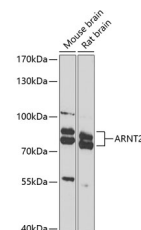
Background

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.

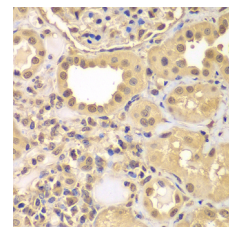
Recommended Dilutions

WB 1:500 - 1:2000

IHC 1:50 - 1:200



Western blot - ARNT2 Polyclonal Antibody (A8060)



Immunohistochemistry - ARNT2 Polyclonal Antibody (A8060)