



Rabbit Anti-ARNT2 antibody

SL4238R

Product Name:	ARNT2
Chinese Name:	芳香烃受体核转录蛋白2抗体
Alias:	ARNT protein 2; Aryl hydrocarbon receptor nuclear translocator 2.ARNT2_HUMAN
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	79kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ARNT2:351-450/717
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	ARNT2 is a member of the basic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily of transcription factors. It 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, ARNT2 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.

Function:

Specifically recognizes the xenobiotic response element (XRE).

Subunit:

Efficient DNA binding requires dimerization with another bHLH protein. Heterodimer with the aryl hydrocarbon receptor (AHR) or the SIM1 protein. Interacts with TACC3.

Subcellular Location:

Nucleus (Potential).

Similarity:

Contains 1 bHLH (basic helix-loop-helix) domain.

Contains 1 PAC (PAS-associated C-terminal) domain.

Contains 2 PAS (PER-ARNT-SIM) domains.

SWISS:

Q9HBZ2

Gene ID:

9915

Database links:

[Entrez Gene: 9915](#)Human

[Entrez Gene: 11864](#)Mouse

[Entrez Gene: 25243](#)Rat

[Omim: 606036](#)Human

[SwissProt: Q9HBZ2](#)Human

[SwissProt: Q61324](#)Mouse

[SwissProt: Q78E60](#)Rat

[Unigene: 459070](#)Human

[Unigene: 38594](#)Mouse

[Unigene: 10518](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

