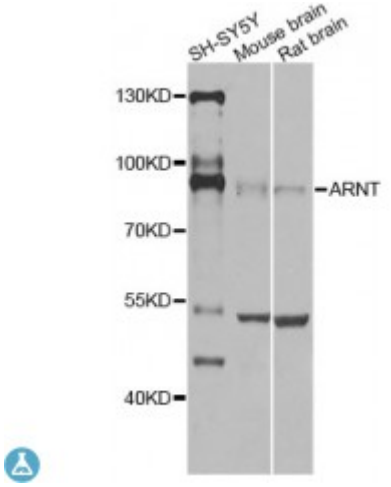
Anti-ARNT Antibody



Description	This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC domain. The encoded protein binds to ligand-bound aryl hydrocarbon receptor and aids in the movement of this complex to the nucleus, where it promotes the expression of genes involved in xenobiotic metabolism. This protein is also a co-factor for transcriptional regulation by hypoxia-inducible factor 1. Chromosomal translocation of this locus with the ETV6 (ets variant 6) gene on chromosome 12 have been described in leukemias. Alternative splicing results in multiple transcript variants.
Model	STJ116905
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-260 of human ARNT (NP_001659.1).
Gene ID	405
Gene Symbol	ARNT
Dilution range	WB 1:500 - 1:2000
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Aryl hydrocarbon receptor nuclear translocator ARNT protein Class E basic helix-loop-helix protein 2 bHLHe2 Dioxin receptor nuclear translocator Hypoxia-inducible factor 1-beta HIF-1-beta HIF1-beta

Molecular Weight	86.636 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:700OMIM:126110Reactome:R-HSA-1234158
Alternative Names	Aryl hydrocarbon receptor nuclear translocator ARNT protein Class E basic helix-loop-helix protein 2 bHLHe2 Dioxin receptor nuclear translocator Hypoxia-inducible factor 1-beta HIF-1-beta HIF1-beta
Function	Required for activity of the Ah (dioxin) receptor, This protein is required for the ligand-binding subunit to translocate from the cytosol to the nucleus after ligand binding, The complex then initiates transcription of genes involved in the activation of PAH procarcinogens, The heterodimer with HIF1A or EPAS1/HIF2A functions as a transcriptional regulator of the adaptive response to hypoxia
Cellular Localization	Nucleus