



Rabbit Anti-Human ARNT monoclonal antibody, clone TU16-36 (CABT-L680)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	HIF-1 beta
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	TU16-36
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC
Molecular Weight	87 kDa
Cellular Localization	Nucleus.
Positive Control	Human liver tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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BACKGROUND

Introduction	AhR, Arnt 1, Arnt 2 and BMAL1 are members of a family of transcription factors that contain a basic helix-loop-helix motif and a common "PAS" motif. The aromatic (aryl) hydrocarbon receptor, AhR, is a ligand dependent transcription factor that interacts with specific DNA sequences termed xenobiotic responsive elements (XREs) to activate several genes including CYP1A1, glutathione S-transferase Ya subunit and DT-diaphorase. The Ah receptor nuclear translocator proteins (Arnt 1 or Arnt 2) are required for ligand-dependent nuclear translocation of the Ah receptor and are also necessary for Ah receptor binding to the XRE element. Arnt 2 (aryl hydrocarbon receptor nuclear translocator 2), also known as Hif-2b or bHLHe1, is a 712 amino acid nuclear protein that is exclusively expressed in adult brain and kidney. Containing a basic helix-loop-helix (bHLH) domain, a PAC (PAS-associated C-terminal) domain and two PAS (PER-ARNT-SIM) domains, Arnt 2 specifically recognizes the xenobiotic response element (XRE).
Keywords	arnT;ARNT protein;ARNT_HUMAN;Aryl hydrocarbon receptor nuclear translocator;bHLHe2;Class E basic helix-loop-helix protein 2;Dioxin receptor;Dioxin receptor nuclear translocator;Drnt;HIF 1 beta;HIF 1beta;HIF-1-beta;HIF1-beta;HIF1B;HIF1beta;Hypoxia Inducible Factor 1;Hypoxia inducible factor 1 beta;Hypoxia-inducible factor 1-beta;nuclear translocator;Tango antibody

GENE INFORMATION

Entrez Gene ID	405
UniProt ID	A8K6P0
