

Datasheet for ABIN3021191
anti-ARNT antibody (AA 400-500)



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2 Images

Overview

Quantity:	100 µL
Target:	ARNT
Binding Specificity:	AA 400-500
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ARNT antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 400-500 of human HIF1beta/ARNT (NP_001659.1).
Sequence:	CHPEDQQLLR DSFQQVVKLK GQVLSVMFRF RSKNQEWLWM RTSSFTFQNP YSDEIEYIIC TNTNVKNSSQ EPRPTLSNTI QRPQLGPTAN LPLEMGSGQL A
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	ARNT
Alternative Name:	ARNT (ARNT Products)
Background:	<p>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.,ARNT,HIF-1-beta,HIF-1beta,HIF1-beta,HIF1B,HIF1BETA,TANGO,bHLHe2,Epigenetics & Nuclear Signaling,Transcription Factors,Nuclear Receptor Signaling,Cancer,Invasion and Metastasis,Signal Transduction,mTOR Signaling Pathway,Endocrine & Metabolism,Nucleotide metabolism,Cardiovascular,Angiogenesis,Hypoxia,HIF,ARNT</p>
Molecular Weight:	84 kDa/85 kDa/86 kDa
Gene ID:	405
UniProt:	P27540
Pathways:	Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Regulation of Carbohydrate Metabolic Process , Signaling Events mediated by VEGFR1 and VEGFR2 , Warburg Effect

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

Handling

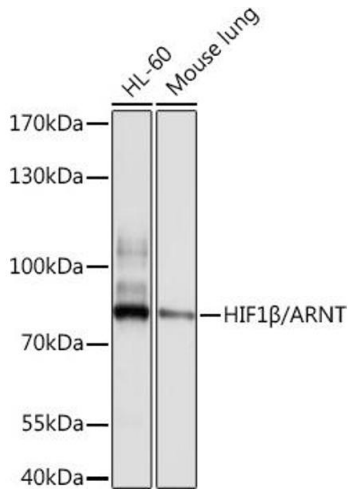
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles

Handling

Storage: -20 °C

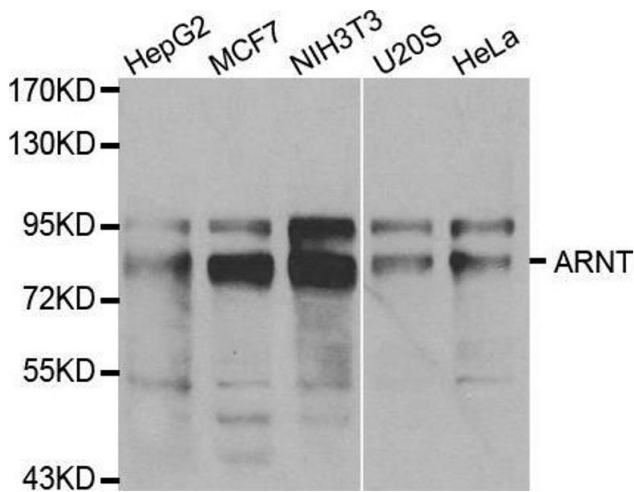
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using HIF1β/ARNT antibody (ABIN3021190, ABIN3021191, ABIN3021192 and ABIN6214058) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using ARNT antibody.