



Datasheet for ABIN3043528
anti-ARNT antibody (AA 416-789)



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2 Images

30 Publications

Overview

Quantity:	100 µg
Target:	ARNT
Binding Specificity:	AA 416-789
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ARNT antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Aryl hydrocarbon receptor nuclear translocator(ARNT) detection. Tested with WB in Human.
Immunogen:	E.coli-derived human HIF1 beta recombinant protein (Position: V416-E789). Human HIF1 beta shares 86% and 83% amino acid (aa) sequences identity with mouse and rat HIF1 beta, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Aryl hydrocarbon receptor nuclear translocator(ARNT) detection. Tested with WB in Human. Gene Name: aryl hydrocarbon receptor nuclear translocator Protein Name: Aryl hydrocarbon receptor nuclear translocator

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: ARNT

Alternative Name: ARNT ([ARNT Products](#))

Background: ARNT is also known as HIF1-beta or HIF1B. This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC domain. It is mapped to 1q21.3. 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. ARNT is a structural component of the XRE-binding form of the Ah receptor. It also functions in concert with RelB in a CD30-induced negative feedback mechanism.

Synonyms: ARNT antibody|ARNT protein antibody|ARNT_HUMAN antibody|Aryl Hydrocarbon Receptor Nuclear Translocator antibody|bHLHe2 antibody|Class E basic helix-loop-helix protein 2 antibody|Dioxin Receptor antibody|Dioxin receptor nuclear translocator antibody|Drnt antibody|HIF 1 beta antibody|HIF 1beta antibody|HIF-1-beta antibody|HIF1-beta antibody|HIF1B antibody|HIF1beta antibody|Hypoxia Inducible Factor 1 antibody|Hypoxia inducible factor 1 beta antibody|Hypoxia-inducible factor 1-beta antibody|nuclear translocator antibody|Tango antibody

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: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for HIF1 beta is approximately 0.25 ng/lane under reducing conditions.

Notes: Tested Species: Species with positive results.

Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

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 repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

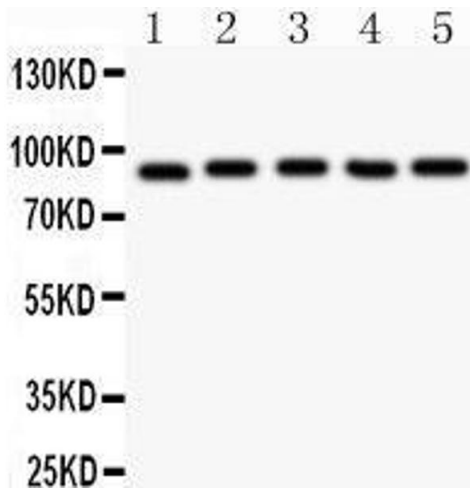
Product cited in: Liu, Mei, Xu, Yu, Shi, Zhang, Wang, Zhang, Gao, Zhang, He: "Dual Receptor Recognizing Cell Penetrating Peptide for Selective Targeting, Efficient Intratumoral Diffusion and Synthesized Anti-Glioma Therapy." in: **Theranostics**, Vol. 6, Issue 2, pp. 177-91, (2017) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Western Blotting

Image 1. Anti-HIF1 beta Picoband antibody, All lanes: Anti HIF1 beta at 0.5ug/ml WB: Recombinant Human HIF1 beta Protein 0.5ng Predicted bind size: 49KD Observed bind size: 49KD



Western Blotting

Image 2.