

Datasheet for ABIN5530298
anti-ARNT2 antibody (AA 249-278)[Go to Product page](#)

2 Images

Overview

Quantity:	400 µL
Target:	ARNT2
Binding Specificity:	AA 249-278
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ARNT2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	This ARNT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 249-278 amino acids from the Central region of human ARNT2.
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	ARNT2
Alternative Name:	ARNT2 (ARNT2 Products)
Background:	This gene encodes a member of the basic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily of transcription factors. The encoded protein acts as a partner for several sensor proteins of the bHLH-PAS family, forming heterodimers with the sensor proteins that bind

Target Details

regulatory DNA sequences in genes responsive to developmental and environmental stimuli. Under hypoxic conditions, the encoded 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. A highly similar protein in mouse forms functional complexes with both aryl hydrocarbon receptors and Single-minded proteins, suggesting addition roles for the encoded protein in the metabolism of xenobiotic compounds and the regulation of neurogenesis, respectively.

Molecular Weight: 79 kDa

Gene ID: 9915

UniProt: [Q9HBZ2](#)

Pathways: [Warburg Effect](#)

Application Details

Application Notes: For WB starting dilution is: 1:1000

For IF starting dilution is: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.5 mg/mL

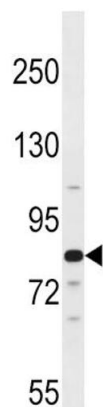
Buffer: Supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

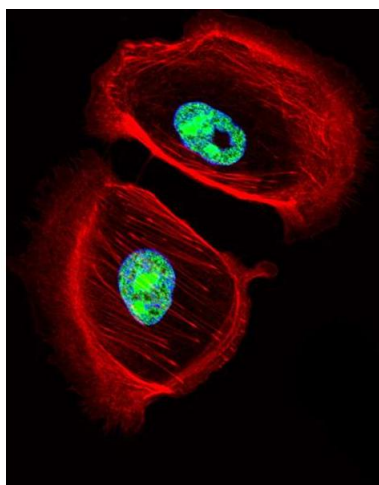
Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



Western Blotting

Image 1. Western blot analysis in 293 cell line lysates (35ug/lane).



Immunofluorescence

Image 2. Fluorescent confocal image of SK-BR-3 cell stained with ARNT2 Antibody . SK-BR-3 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with ARNT2 primary antibody (1:25). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min).ARNT2 immunoreactivity is localized to nucleus significantly.