Product datasheet

Anti-HIF-1 Beta/ARNT Antibody (Clone#EAD-1)

Catalog Number: *BM4377*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-HIF-1 Beta/ARNT Antibody (Clone#EAD-1)
Gene Name	ARNT
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human HIF-1 beta
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	87 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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.

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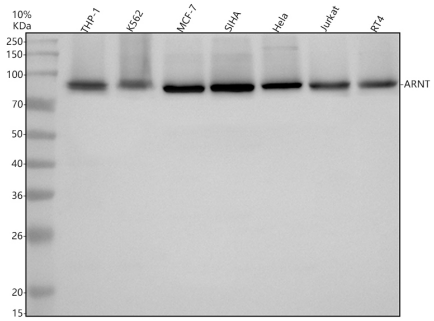
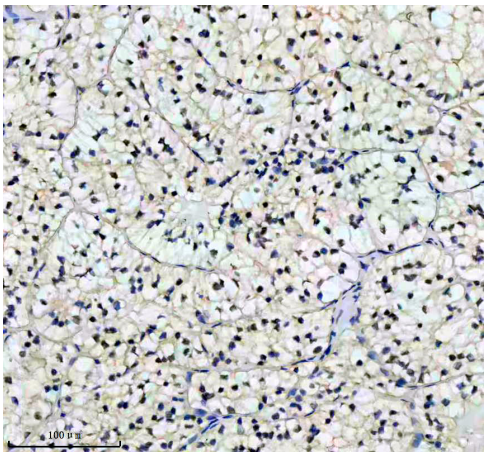
Reference

Anti-HIF-1 Beta/ARNT Antibody (Clone#EAD-1)被引用在1文献中。

Selected Validation Data



Western blot analysis of anti-HIF-1 Beta/ARNT antibody (BM4377). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human THP-1 whole cell lysates,
Lane 2: human K562 whole cell lysates,
Lane 3: human MCF-7 whole cell lysates,
Lane 4: human SIHA whole cell lysates,
Lane 5: human Hela whole cell lysates,
Lane 6: human Jurkat whole cell lysates,
Lane 7: human RT4 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-HIF-1 Beta/ARNT antigen affinity purified monoclonal antibody (BM4377) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HIF-1 Beta/ARNT at approximately 87 kDa. The expected band size for HIF-1 Beta/ARNT is at 87 kDa.



IHC analysis of HIF-1 Beta/ARNT using anti-HIF-1 Beta/ARNT antibody (BM4377) .
HIF-1 Beta/ARNT was detected in a paraffin-embedded section of human renal cancer tissue. The tissue section was incubated with rabbit anti-HIF-1 Beta/ARNT Antibody (BM4377) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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