

ARNT Antibody

Catalog No: #33731

Package Size: #33731-1 50ul #33731-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

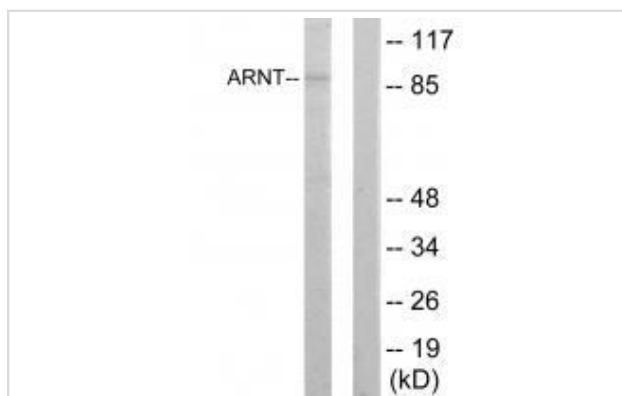
Description

Product Name	ARNT Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total ARNT protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human ARNT.
Target Name	ARNT
Other Names	Aryl hydrocarbon receptor nuclear translocator; Dioxin receptor; nuclear translocator; HIF-1 beta; Hypoxia-inducible factor 1 beta
Accession No.	Swiss-Prot: P27540NCBI Gene ID: 405
Uniprot	P27540
GeneID	405;
SDS-PAGE MW	87kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from HepG2 cells, using ARNT antibody #33731.

Background

Required for activity of the Ah (dioxin) receptor. This protein is required for the ligand-binding subunit to translocate from the cytosol to the nucleus after ligand binding. The complex then initiates transcription of genes involved in the activation of PAH procarcinogens. The heterodimer with HIF1A or EPAS1/HIF2A functions as a transcriptional regulator of the adaptive response to hypoxia.

Hoffman E.C., *Science* 252:954-958(1991).

Wang G.L., *Proc. Natl. Acad. Sci. U.S.A.* 92:5510-5514(1995).

Nguyen T.A., *Arch. Biochem. Biophys.* 367:250-257(1999).

Note: This product is for in vitro research use only