For Research Use Only

ARNT2 Polyclonal antibody Catalog Number: 12810-1-AP Featured Product

Featured Product 2 Publications



Basic Information	Catalog Number:	GenBank Accession Number:	Purification Method:
	12810-1-AP	BC036099	Antigen affinity purification
	Size: 150ul, Concentration: 260 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;	GenelD (NCBI):	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
		9915 UNIPROT ID: O9HBZ2	
	Source: Rabbit	Full Name: aryl-hydrocarbon receptor nuclear translocator 2	
	Isotype: IgG Immunogen Catalog Number: AG3536		
		716 aa, 79 kDa	
		Observed MW: 80-85 kDa	
Applications	Tested Applications:	Positive Controls: WB : HEK-293 cells, Jurkat cells, Raji cells ons: IHC : human gliomas tissue,	
	WB, IHC, ELISA		
	WB		
	Species Specificity: human, mouse, rat		
	Cited Species: human, mouse		
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	etrieval with vely, antigen ith <mark>citrate</mark>	
Background Information	Aryl-hydrocarbon receptor nuclear translocator 2(ARNT2), is a member of the basic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily of transcription factors. It specifically recognizes the xenobiotic response element(XRE). ARNT2 plays an important role in normal glucose handling in pancreatic beta cell function in humans and mice. ARNT2 proteins are dimeric partners for other PAS proteins such as HIF and SIM. ARNT2 and the other ARNT family members, e.g., ARNT, hypoxin inducible factor 1a (HIF1a), HIF2a, and aryl hydrocarbon receptor (AhR), are thought to function as heterodimers, and regulate the expression, and thereby the function, of many genes. Under hypoxic conditions, it 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. Modulation of ARNT2 in pancreatic beta cells affects glucose stimulated INS secretion (GSIS). This antibody is a rabbit polyclonal antibody raised against residues near the C terminus of human ARNT2.		
Notable Publications	Author		Analiastica
	Zhiviao Sun ZZI	577006 Front Microbiol	WB
	Maralice Conacci-Sorrell 39:	184078 Res Sq	WB
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	er shipment. % glycerol pH 7.3.	
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20° C s	torage	
or technical support and original validation data for this product please contact: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com USA), or 1(312) 455-8498 (outside USA) W: ptglab.com		This product Group brand other manuf	is exclusively available under Proteintech I and is not available to purchase from any facturer.

Selected Validation Data





Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 12810-1-AP (ARNT2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). HEK-293 cells were subjected to SDS PAGE followed by western blot with 12810-1-AP (ARNT2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.

250kd-

150kd-

100kd

70kd

WB result of ARNT2 antibody (12810-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ARNT2 transfected Jurkat cells.