

ARNT2 Polyclonal Antibody

Catalog number: 12810-1-AP

Size: 34 µg/150 µl

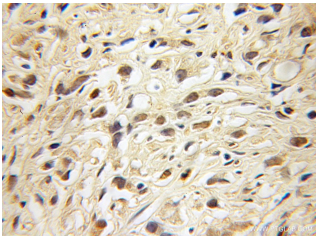
Source: Rabbit

Isotype: IgG

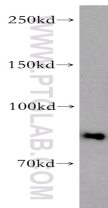
Synonyms:

ARNT2; ARNT protein 2,

ARNT2, bHLHe1, KIAA0307



Immunohistochemical of paraffin-embedded human gliomas using 12810-1-AP (ARNT2 antibody) at dilution of 1:100 (under 10x lens)



HEK-293 cells were subjected to SDS PAGE followed by western blot with 12810-1-AP (ARNT2 antibody) at dilution of 1:300

Background

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 1α (HIF1α), HIF2α, 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 1α 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 insulin secretion (GSIS). This antibody is a rabbit polyclonal antibody raised against residues near the C terminus of human ARNT2.

Applications

Tested applications:	ELISA, WB, IHC
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated ARNT2 MW:	716aa, 79 kDa
Observed ARNT2 MW:	80-85kd
Positive WB detected in	HEK-293 cells, Jurkat cells, Raji cells
Positive IHC detected in	Human gliomas tissue
Recommended dilution:	WB: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3536
GenBank accession number:	BC036099
Gene ID (NCBI):	9915
Full name:	Aryl-hydrocarbon receptor nuclear translocator 2

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.