

RACO0173

Product Information

Size:

50ul

Reactivity:

Human

Source:

Human

Isotype:

Rabbit IgG

Applications:

ELISA, WB, IHC, IP

Recommended dilutions:

WB:1:500-1:5000, IHC:1:50-1:200, IP:1:200-1:1000

Protein 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 binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters and functions as a transcriptional regulator of the adaptive response to hypoxia (By similarity). The heterodimer ARNT: AHR binds to core DNA sequence 5'-TGCGTG-3' within the dioxin response element (DRE) of target gene promoters and activates their transcription .

Gene ID:

ARNT

Uniprot

P27540

Synonyms:

Aryl hydrocarbon receptor nuclear translocator, ARNT protein, Class E basic helix-loop-helix protein 2, bHLHe2, Dioxin receptor, nuclear translocator, Hypoxia-inducible factor 1-beta, HIF-1-beta, HIF1-beta, ARNT, BHLHE2

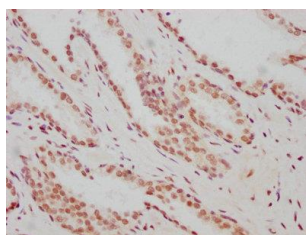
Immunogen:

A synthesized peptide derived from human ARNT.

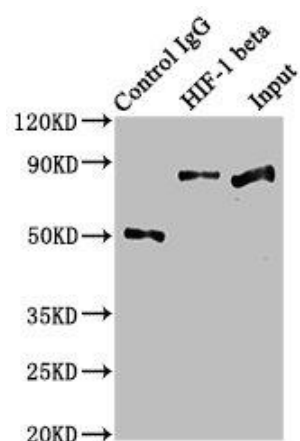
Storage:

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Product Images



IHC image of RACO0173 diluted at 1:183 and staining in paraffin-embedded human prostate cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

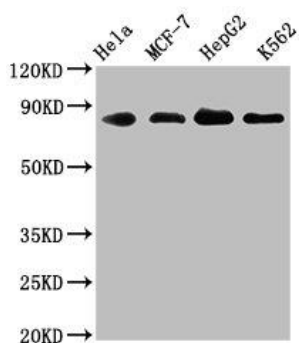


Immunoprecipitating HIF-1 beta in HeLa whole cell lysate) Lane 1: Rabbit control IgG instead of RACO0173 in HeLa whole cell lysate)

For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: RACO0173 (3µg) + HeLa whole cell lysate) (500µg)

Lane 3: HeLa whole cell lysate) (20µg)



Western Blot

Positive WB detected in(HeLa whole cell lysate) MCF-7 whole cell lysate)

HepG2 whole cell lysate) K562 whole cell lysate) All lanes: ARNT antibody at 1. (3µg/ml

Secondary

Goat polyclonal to rabbit IgG at 1:50000 dilution

Predicted band size: 87, 85, 86 KDa

Observed band size: 87 KDa