ARNT2 (M50) polyclonal antibody

Catalog: BS2365 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

AhR, ARNT1, ARNT2 and BMAL1 are members of a family of transcription factors that contain a basic he-lix-loop-helix motif and a common “PAS” motif. The aromatic (aryl) hydrocarbon receptor, AhR, is a ligand dependent transcription factor that interacts with specific DNA sequences termed xenobiotic responsive elements (XREs) to activate several genes including CYP1A1, glutathione S-transferase Ya subunit and DT-diaphorase. The Ah receptor nuclear translocator proteins (Arnt 1 or Arnt 2) are required for ligand-dependent nuclear trans-location of the Ah receptor and are also necessary for Ah receptor binding to the XRE element. BMAL1 (Brain and Muscle Arnt-like protein 1), also designated Arnt 3, TIC, JAP3 or MOP-3, has been shown to dimerize with Clock and bind to the promoter region of mPer1, suggesting that this protein plays a role in regulation of circadian oscilla-tion in mammals.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 79 kDa

Swiss-Prot:

Q9HBZ2

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-munogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

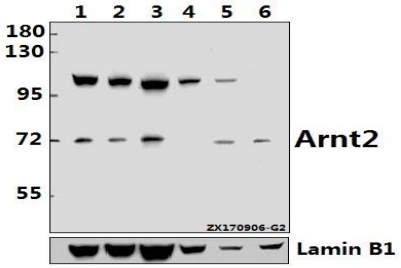
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

ARNT2 (M50) polyclonal antibody detects endogenous levels of ARNT2 protein.

DATA:



Western blot (WB) analysis of Arnt2 (M50) pAb at 1:500 dilution

Lane1:A549 whole cell lysate(40ug)

Lane2:MCF-7 whole cell lysate(40ug)

Lane3:HEK293T whole cell lysate(40ug)

Lane4:Hela whole cell lysate(40ug)

Lane5:H9C2 whole cell lysate(40ug)

Lane6:3T3-L1 whole cell lysate(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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