AhR (K32) polyclonal antibody

Catalog: BCP00163 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

The Aryl Hydrocarbon Receptor (AHR), also known as the dioxin receptor, is a ligand-activated helix/loop/helix transcription factor found in a variety of vertebrate species. The known ligands for AHR are foreign planar aromatic compounds, such as polycyclic aromatic compounds and halogenated aromatic compounds such as 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD).Unlike the steroid/thyroid hormone receptors, there is no known physiological ligand for the AH Receptor. Studies indicate that in non-ligand activated cells, AHR is found complexed with HSP90 predominantly in the cytoplasm. Upon binding to an agonist, the ligand-activated AHR is believed to transform to a nuclear, DNA binding form. This transformation process appears to involve dissociation of HSP90 from AHR followed by formation of a heterodimer with AHR nuclear translocator protein (Arnt). The AHR-ligand complex appears to initiate gene transcription of cytochrome P450 1A1.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 94 kDa

Swiss-Prot:

P35869

Purification&Purity:

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

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

IF: 1:50~1:200

IP: 1:50~1:200

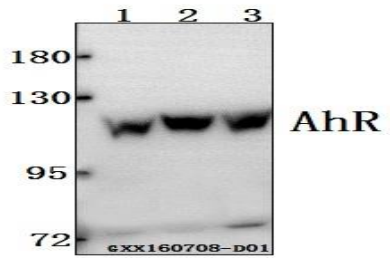
Storage&Stability:

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

Specificity:

AhR (K32) polyclonal antibody detects endogenous levels of AhR protein.

DATA:

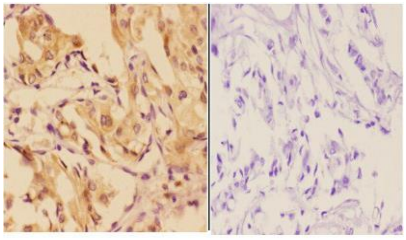


Western blot (WB) analysis of AhR (K32) polyclonal antibody at 1:500 dilution

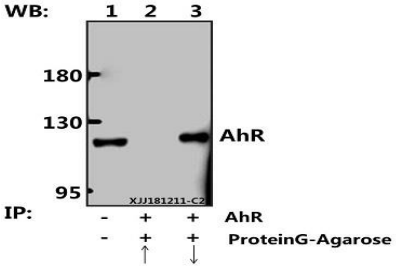
Lane1:L02 whole cell lysate(40ug)

Lane2:HEK293T whole cell lysate(40ug)

Lane3:SGC7901 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of AhR (K32) pAb in paraffin-embedded human breast carcinoma tissue at 1:50,showing cytoplasmic and nucleus staining.Negative control (the right)Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



Immunoprecipitation of SGC7901 cell lysate using AhR (K32) polyclonal antibody (Sepharose Bead Conjugate) #BD0048(lane 2 and lane 3) .Lane 1 is 30% input.The western blot was probed using AhR (K32) . “↑”（supernatant）; “↓(deposition）

Note:

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

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