

AhR (K32) polyclonal antibody

Catalog: AP0420

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 AHR. 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:

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

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

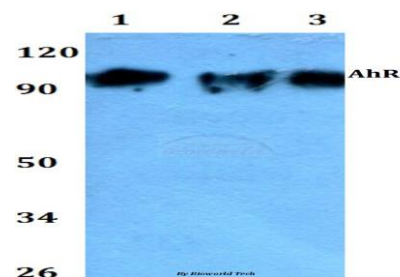
Storage&Stability:

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

Specificity:

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

DATA:

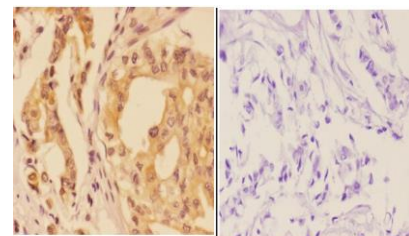


Western blot (WB) analysis of AhR (K32) polyclonal antibody at 1:500 dilution

Lane1:A549 whole cell lysate

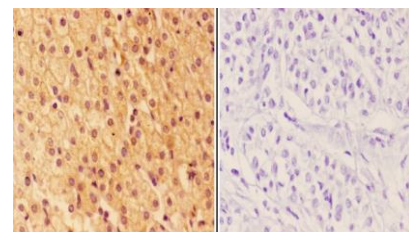
Lane2:NIH-3T3 whole cell lysate

Lane3:PC12 whole cell lysate



AP0420
Lot:AA00111

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.



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Immunohistochemistry (IHC) analyzes of AhR (K32) pAb in paraffin-

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PRODUCT DATA SHEET

Bioworld Technology, Inc.

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followed by avidin-peroxidase.

Note:

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

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