

Product datasheet for AP20330PU-M

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Aryl hydrocarbon Receptor (AHR) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IF, IHC, WB

Recommended Dilution: Western Blot: 1/500-1/1000.

Immunofluorescence: 1/50-1/200.

Immunohistochemistry on Paraffin Sections: 1/50-1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of AhR protein.

Formulation: Phosphate buffered saline (PBS), pH~7.2

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)

Preservative: 0.05% Sodium Azide

Concentration: 1.0 mg/ml

Purification: Affinity Chromatography using epitope-specific immunogen

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~96 kDa

Gene Name: aryl hydrocarbon receptor

Database Link: Entrez Gene 11622 MouseEntrez Gene 25690 RatEntrez Gene 196 Human

P35869





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.

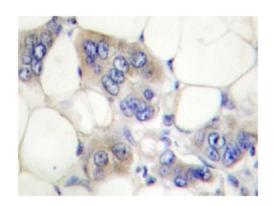
Studies indicate that in non-ligand activated cells, AHR is found complexed with HSP90 predominantly in the cytoplasm. Upon binding to an agonist, the ligand-activated AHR is believed to transform to a nuclear, DNA binding form. This transformation process appears to involve dissociation of HSP90 from 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.

Synonyms: AHR, BHLHE76, Aryl hydrocarbon receptor

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Product images:



Immunohistochemistry analysis of AhR antibody (Cat.-No [AP20330PU-N]) in paraffin-Embedded human breast carcinoma tissue.