

# Product datasheet for AP20330PU-N

### 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 Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage: Avoid repeated freezing and thawing. Stability: Shelf life: one year from despatch. Predicted Protein Size: ~96 kDa aryl hydrocarbon receptor Gene Name: Entrez Gene 11622 MouseEntrez Gene 25690 RatEntrez Gene 196 Human Database Link: P35869



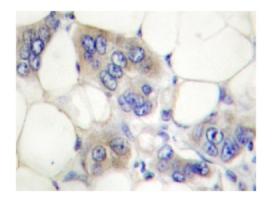
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	Aryl hydrocarbon Receptor (AHR) Rabbit Polyclonal Antibody – AP20330PU-N
Background:	The Aryl Hydrocarbon Receptor (AHR), also known as the dioxin receptor, is a ligand-activated helix/loop/helix transcription factor found in a variety of vertebrate 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.

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