

**Anti-Human/Mouse/Rat Phospho-AHR/AHRR (Ser36) Polyclonal Antibody**

**Polyclonal Antibody**

**Cat.NO.: PA01808**

3th Edition

**Description:** The protein encoded by this gene is a ligand-activated helix-loop-helix transcription factor involved in the regulation of biological responses to planar aromatic hydrocarbons. This receptor has been shown to regulate xenobiotic-metabolizing enzymes such as cytochrome P450. Before ligand binding, the encoded protein is sequestered in the cytoplasm; upon ligand binding, this protein moves to the nucleus and stimulates transcription of target genes. AHR (Aryl Hydrocarbon Receptor) is a Protein Coding gene. Diseases associated with AHR include Eosinophilic Fasciitis and Seborrheic Dermatitis. Among its related pathways are Cytochrome P450 - arranged by substrate type and Circadian rhythm related genes. GO annotations related to this gene include transcription factor activity, sequence-specific DNA binding and protein heterodimerization activity. An important paralog of this gene is ENSG00000283321.

**Antigen:** Synthesized peptide derived from human Ah Receptor around the phosphorylation site of Ser36

**Form:**

**How to use:** 1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:** PBS (pH7.4) containing 1% BSA

**Application:** This antibody can be used for western blotting in concentration of 1?5?g/ml.

**Specificity:** AHR is Expressed in all tissues tested including blood, brain, heart, kidney, liver, lung, pancreas and skeletal muscle. AHRR is Highly expressed in testis, lung, ovary, spleen and pancreas. Highly expressed in mononuclear cells (MNCs) from umbilical cord blood. Isoform 3 is highly expressed in lung, kidney, spleen and thymus. Down-regulated malignant tissue from different anatomical origins, including colon, breast, lung, stomach, cervix, and ovary.