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| <b>Product name:</b>     | Ah Receptor (phospho Ser36) Rabbit Polyclonal Antibody                                                                                |
| <b>Cat number:</b>       | ABN04205                                                                                                                              |
| <b>Conjugate:</b>        | Unconjugated                                                                                                                          |
| <b>Size:</b>             | 100µL                                                                                                                                 |
| <b>Clone:</b>            | Polyclonal                                                                                                                            |
| <b>Concentration:</b>    | 1mg/ml                                                                                                                                |
| <b>Host:</b>             | Rabbit                                                                                                                                |
| <b>Isotype:</b>          | IgG                                                                                                                                   |
| <b>Immunogen:</b>        | The antiserum was produced against synthesized peptide derived from human AhR around the phosphorylation site of Ser36. AA range:2-51 |
| <b>Reactivity:</b>       | Human,Mouse,Rat                                                                                                                       |
| <b>Applications:</b>     | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000                                                                |
| <b>Molecular Weight:</b> | 75 or 96kDa                                                                                                                           |
| <b>Purification:</b>     | Affinity purification                                                                                                                 |
| <b>Form:</b>             | Liquid                                                                                                                                |
| <b>Buffer:</b>           | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.                                                    |
| <b>Storage:</b>          | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.                                          |

**Background:**

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. [provided by RefSeq, Sep 2015],function:Ligand-activated transcriptional activator. Binds to the XRE promoter region of genes it activates. Activates the expression of multiple phase I and II xenobiotic chemical metabolizing enzyme genes (such as the CYP1A1 gene). Mediates biochemical and toxic effects of halogenated aromatic hydrocarbons. Involved in cell-cycle regulation. Likely to play an important role in the development and maturation of many tissues.,induction:Induced or repressed by TGF-beta and dioxin in a cell-type specific fashion. Repressed by cAMP, retinoic acid, and TPA.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,similarity:Contains 1 PAC (PAS-associated C-terminal) domain.,similarity:Contains 2 PAS (PER-ARNT-SIM) domains.,subcellular location:Initially cytoplasmic; upon binding with ligand and interaction with a HSP90, it translocates to the nucleus.,subunit:Binds MYBBP1A (By similarity). Efficient DNA binding requires dimerization with another bHLH protein. In the nucleus, heterodimer of AHR and ARNT. Interacts with coactivators including SRC-1, RIP140 and NOCA7, and with the corepressor SMRT. Interacts with NEDD8 and IVNS1ABP.,tissue specificity:Expressed in all tissues tested including blood, brain, heart, kidney, liver, lung, pancreas and skeletal muscle.,