

AhR (Phospho Ser36) Rabbit pAb

CatalogNo: YP0713

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 96kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:5000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human AhR around the phosphorylation site of Ser36. AA range: 2-51

Specificity Phospho-Ah Receptor (S36) Polyclonal Antibody detects endogenous levels of Ah Receptor protein only when phosphorylated at S36. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): NPsKR

Target Information

Gene name AHR BHLHE76

Protein Name Aryl hydrocarbon receptor

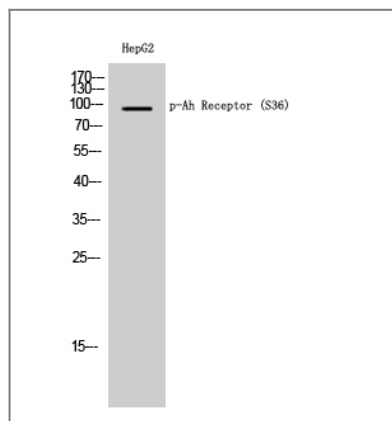
Organism	Gene ID	UniProt ID
Human	196 ;	P35869 ;
Mouse	11622 ;	P30561 ;
Rat	25690 ;	P41738 ;

Cellular Localization Cytoplasm . Nucleus . Initially cytoplasmic; upon binding with ligand and interaction with a HSP90, it translocates to the nucleus. .

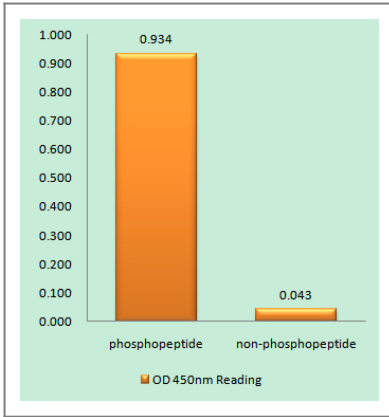
Tissue specificity Expressed in all tissues tested including blood, brain, heart, kidney, liver, lung, pancreas and skeletal muscle. Expressed in retinal photoreceptors (PubMed:29726989).

Function 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.,

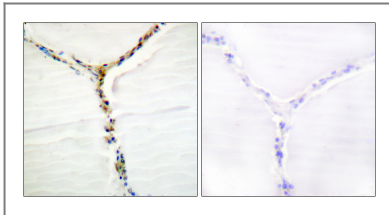
Validation Data



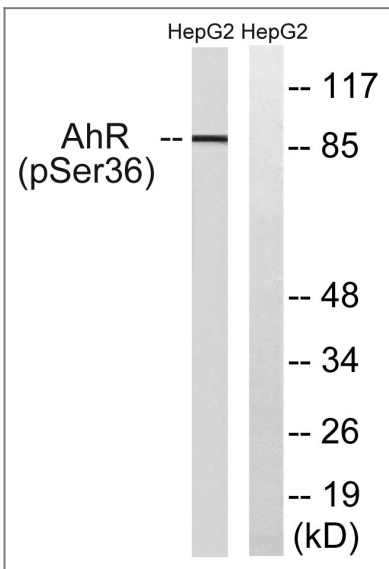
Western Blot analysis of HepG2 cells using Phospho-Ah Receptor (S36) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using AhR (Phospho-Ser36) Antibody



Immunohistochemistry analysis of paraffin-embedded human thyroid gland, using AhR (Phospho-Ser36) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells, using AhR (Phospho-Ser36) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:

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