

Ah Receptor Rabbit pAb

CatalogNo: YT0145

Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 75kD or 96kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000**IHC 1:100-1:300****IF 1:200-1:1000****ELISA 1:20000****Not yet tested in other applications.**

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.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human AhR. AA range: 2-51

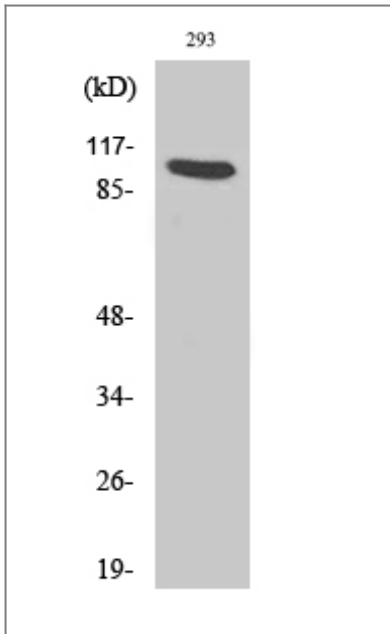
Specificity

Ah Receptor Polyclonal Antibody detects endogenous levels of Ah Receptor protein.

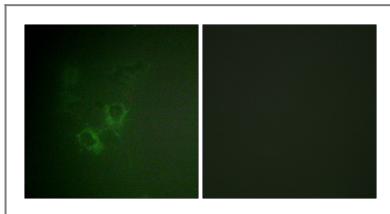
| Target Information

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.,		

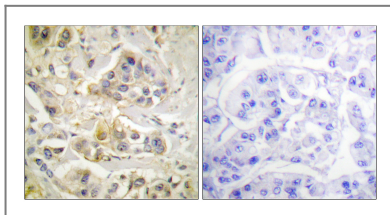
| Validation Data



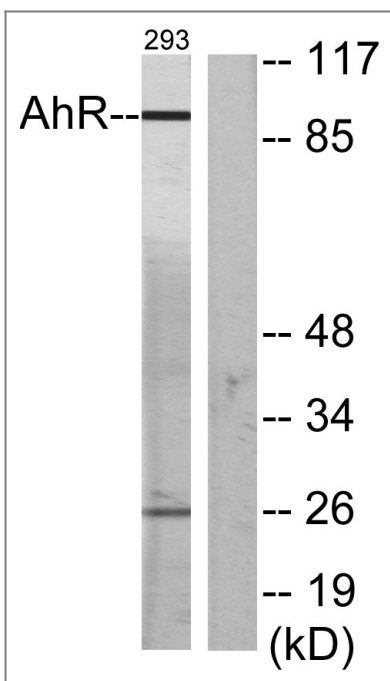
Western Blot analysis of various cells using Ah Receptor Polyclonal Antibody



Immunofluorescence analysis of HeLa cells, using AhR Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using AhR Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, using AhR Antibody. The lane on the right is blocked with the synthesized peptide.

| Contact information

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Please scan the QR code
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product information:
**Ah Receptor Rabbit
pAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

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