

Ah Receptor Polyclonal Antibody

Catalog No: YT0145

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: Ah Receptor

Fields: >>Th17 cell differentiation;>>Cushing syndrome;>>Chemical carcinogenesis -

receptor activation;>>Chemical carcinogenesis - reactive oxygen species

Gene Name: AHR

Protein Name: Aryl hydrocarbon receptor

Human Gene Id: 196/57491

Human Swiss Prot

No:

Mouse Gene ld: 11622/11624

Rat Gene Id: 25690/498999

Rat Swiss Prot No: P41738/Q75NT5

Immunogen: The antiserum was produced against synthesized peptide derived from human

AhR. AA range:2-51

P35869/A9YTQ3

Specificity: Ah Receptor Polyclonal Antibody detects endogenous levels of Ah Receptor

protein.

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

Source: Polyclonal, Rabbit, lgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not

yet tested in other applications.



Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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

Observed Band: 75 or 96kD

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: 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)

Subcellular Location:

Cytoplasm . Nucleus . Initially cytoplasmic; upon binding with ligand and

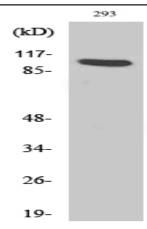
interaction with a HSP90, it translocates to the nucleus. .

Expression: Expressed in all tissues tested including blood, brain, heart, kidney, liver, lung,

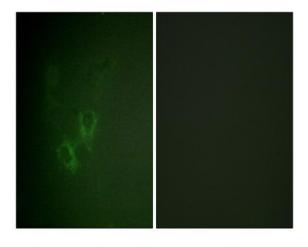
pancreas and skeletal muscle. Expressed in retinal photoreceptors

(PubMed:29726989).

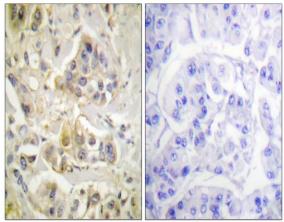
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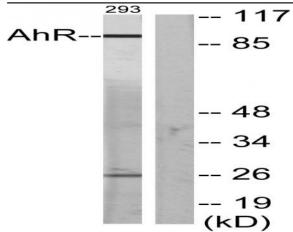
Western Blot analysis of various cells using Ah Receptor Polyclonal Antibody



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.