



Ah Receptor Monoclonal Antibody

Catalog No	YP-mAb-01522
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	AHR
Immunogen	The antiserum was produced against synthesized peptide derived from human AhR. AA range:2-51
Specificity	Ah Receptor Monoclonal Antibody detects endogenous levels of Ah Receptor protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Ah receptor;bHLHe76;Class E basic helix-loop-helix protein 76;AHR;Aryl hydrocarbon receptor;AHRR;BHLHE77;KIAA1234;Aryl hydrocarbon receptor repressor;AhR repressor;Class E basic helix-loop-helix protein 77;bHL
Observed Band	96kD
Calculated Molecular Weight	96kD
Cell Pathway	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:Bounds MYBBP1A (By similarity)

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],

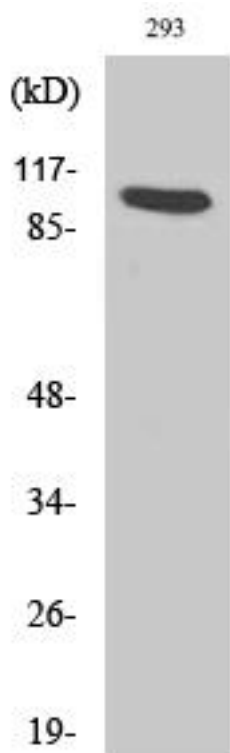
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Ah Receptor Monoclonal Antibody