

Rabbit AhR Polyclonal Antibody | anti-AhR antibody

Phospho-AhR (Ser36) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321601	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

AhR; Polyclonal Antibody; Phospho-AhR (Ser36) Antibody; Ah receptor; AHR_HUMAN; Aromatic hydrocarbon receptor; Aryl hydrocarbon receptor; Aryl hydrocarbon receptor precursor; bHLHe76; Class E basic helix loop helix protein 76; Class E basic helix-loop-helix protein 76; HGNC:348; AHH; AhR repressor; AhRR; AHRR_HUMAN; aryl hydrocarbon hydroxylase regulator; aryl hydrocarbon receptor regulator; Aryl hydrocarbon receptor repressor; Arylhydrocarbon receptor repressor; bHLHe77; Class E basic helix-loop-helix protein 77; Dioxin receptor repressor; KIAA1234; MGC167813; MGC176630; OTTHUMP00000221488; OTTHUMP00000221489; anti-AhR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-AhR (Ser36) antibody detects endogenous levels of AhR only when phosphorylated at Serine 36
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	848
Applicable Applications for anti-AhR antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AhR around the phosphorylation site of Serine 36
Subcellular Location	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.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser36
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA321601 at 1/100 staining human Brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of AhR phosphorylation expression in HepG2 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA321601 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of Phospho-AhR (Ser36) expression in various lysates

ADDITIONAL INFORMATION

Related Product Information for anti-AhR antibody	Description: The Aryl Hydrocarbon Receptor (AHR), also known as the dioxin receptor, is a ligand-activated helix/loop/helix transcription factor found in a variety of vertebrate species. The known ligands for AHR are foreign planar aromatic compounds, such as polycyclic aromatic compounds and halogenated aromatic compounds such as 2, 3, 7, 8-tetrachlorodibenzo-p-dioxin (TCDD). 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. Regulates the circadian clock by inhibiting the basal and circadian expression of the core circadian component PER1. Inhibits PER1 by repressing the CLOCK-ARNTL/BMAL1 heterodimer mediated transcriptional activation of PER1. Subunit Structure: 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. Interacts with ARNTL/BMAL1. Interacts with HSP90AB1 (By similarity).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502003
NCBI GeneID	196
NCBI Accession #	NP_001612.1
NCBI GenBank Nucleotide #	NM_001621.4
UniProt Accession #	P35869; Q13728; Q13803; Q13804; A4D130
Molecular Weight	Observed: 90 kDa Predicted: 97 kDa
NCBI Official Full Name	aryl hydrocarbon receptor
NCBI Official Synonym Full Names	aryl hydrocarbon receptor
NCBI Official Symbol	AHR
NCBI Official Synonym Symbols	bHLHe76
NCBI Protein Information	aryl hydrocarbon receptor

UniProt Protein Name	Aryl hydrocarbon receptor
UniProt Gene Name	AHR
UniProt Synonym Gene Names	BHLHE76; Ah receptor; AhR; bHLHe76

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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