

Mouse anti-Human AHR Monoclonal Antibody | anti-AHR antibody

AHR (Aryl Hydrocarbon Receptor, Ah Receptor, AhR, Class E Basic Helix-loop-helix Protein 76, bHLHe76, BHLHE76) (HRP)

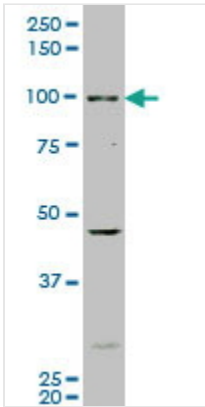
CATALOG # AAA25312	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

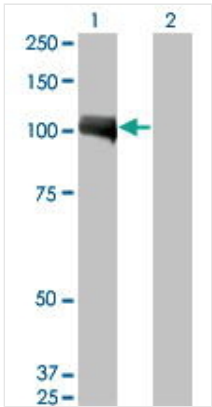
AHR; Monoclonal Antibody; AHR (Aryl Hydrocarbon Receptor; Ah Receptor; AhR; Class E Basic Helix-loop-helix Protein 76; bHLHe76; BHLHE76) (HRP); anti-AHR antibody

PRODUCT SPECIFICATIONS

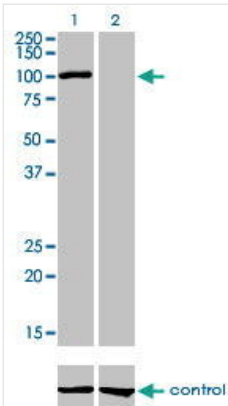
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3B12
Specificity	Recognizes human AHR.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Applicable Applications for anti-AHR antibody	ELISA, IP (Immunoprecipitation), WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	Partial recombinant protein corresponding to aa721-820 from human AHR (NP_001612) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MGSFEPSPYPTTSSLEDFVTCLQLPENQKHGLNPQSAITPQTCYAGAVSMYQCQPEPQHthVGQMqYNPVLPGQQAFLNKFQNGVLNETYPaelNNIN
Conjugate	HRP
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.



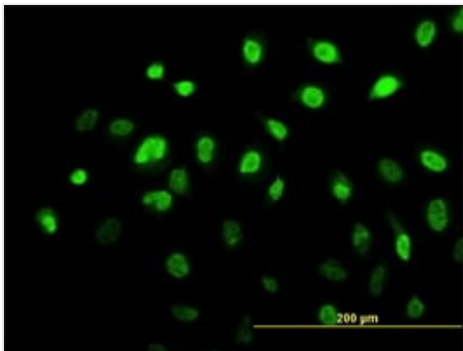
Application Data



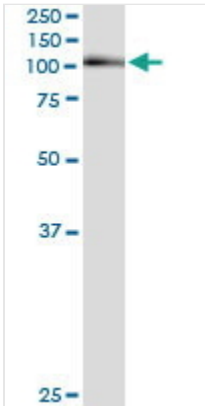
Application Data



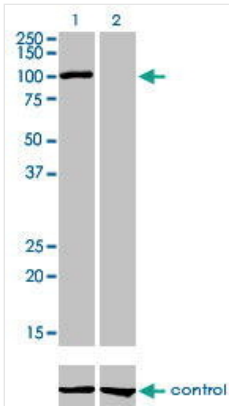
Application Data
Detection limit for 123091 is ~0.03ng/ml as a capture antibody.



IF (Immunofluorescence)
Immunofluorescence to AHR on HeLa cell using 123091 (10ug/ml).



IP (Immunoprecipitation)
Immunoprecipitation of AHR transfected lysate using 123091 and Protein A Magnetic Bead and immunoblotted with AHR rabbit polyclonal antibody.



WB (Western Blot)
Western Blot analysis of AHR over-expressed 293 cell line, cotransfected with AHR Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with 123091. GAPDH (36.1kD) used as specificity and loading control.

ADDITIONAL INFORMATION

Related Product Information for anti-AHR antibody	Aryl hydrocarbon receptor is a ligand-activated transcription factor involved in the regulation of biological responses to planar aromatic hydrocarbons. AHR has been shown to regulate xenobiotic-metabolizing enzymes such as cytochrome P450.
Product Categories/Family for anti-AHR antibody	Antibodies; Receptors

References	1. Malassezia-derived indoles activate the aryl hydrocarbon receptor and inhibit Toll-like receptor-induced maturation in monocyte-derived dendritic cells. Vlachos C, Schulte BM, Magiatis P, Adema GJ, Gaitanis G.Br J Dermatol. 2012 Apr 25. doi: 10.1111/j.1365-2133.2012.11014.x. 2. Diminished carcinogen detoxification is a novel mechanism for hypoxia-inducible factor 1-mediated genetic instability. Schults MA, Timmermans L, Godschalk RW, Theys J, Wouters BG, van Schooten FJ, Chiu RK.J Biol Chem. 2010 May 7;285(19):14558-64. Epub 2010 Mar 12.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502003
NCBI GeneID	196
NCBI Accession #	NP_001612
NCBI GenBank Nucleotide #	NM_001621
UniProt Accession #	P35869; Q13728; Q13803; Q13804; A4D130
Molecular Weight	96,147 Da
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; AH-receptor; ah receptor; aromatic hydrocarbon receptor; class E basic helix-loop-helix protein 76
UniProt Protein Name	Aryl hydrocarbon receptor
UniProt Gene Name	AHR
UniProt Synonym Gene Names	BHLHE76; Ah receptor; AhR; bHLHe76
UniProt Entry Name	AHR_HUMAN

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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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ahr-antibody-clone-3b12-immunoprecipitation-western-blot-elisa/25312>