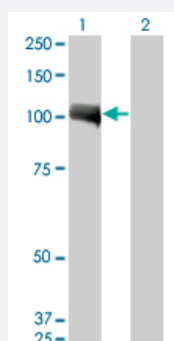


AHR monoclonal antibody (M02), clone 3B12

Catalog # H00000196-M02

Size 100 ug

Applications

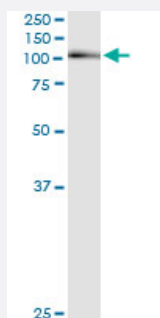


Western Blot (Transfected lysate)

Western Blot analysis of AHR expression in transfected 293T cell line by AHR monoclonal antibody (M02), clone 3B12.

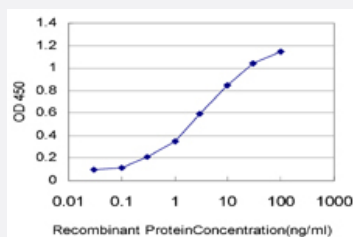
Lane 1: AHR transfected lysate(96.147 KDa).

Lane 2: Non-transfected lysate.



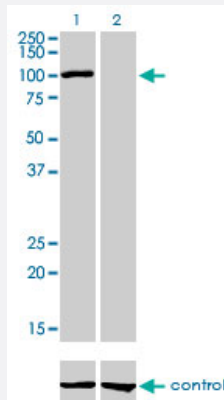
Immunoprecipitation

Immunoprecipitation of AHR transfected lysate using anti-AHR monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with AHR MaxPab rabbit polyclonal antibody.



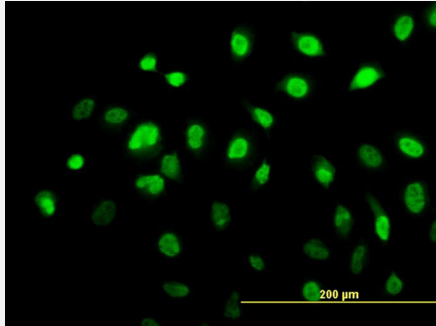
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AHR is approximately 0.03ng/ml as a capture antibody.



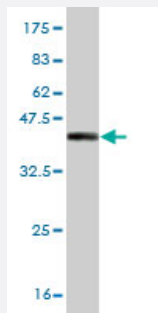
RNAi Knockdown (Antibody validated)

Western blot analysis of AHR over-expressed 293 cell line, cotransfected with AHR Validated Chimera RNAi (Cat # H00000196-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with AHR monoclonal antibody (M02), clone 3B12 (Cat # H00000196-M02). GAPDH (36.1 kDa) used as specificity and loading control.



Immunofluorescence

Immunofluorescence of monoclonal antibody to AHR on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant AHR.
Immunogen	AHR (NP_001612, 721 a.a. ~ 820 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MGSFEPSPYPTTSSLEDFVTCLQLPENQKHGLNPQSAITPQTCYAGAVSMYQCQPEPQHTHV/GQ MQYNPVLPGQQAFNLNKFQNGVLNETYPaelNNINN
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (65)

Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of AHR expression in transfected 293T cell line by AHR monoclonal antibody (M02), clone 3B12.

Lane 1: AHR transfected lysate(96.147 KDa).

Lane 2: Non-transfected lysate.

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- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of AHR transfected lysate using anti-AHR monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with AHR MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

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Detection limit for recombinant GST tagged AHR is approximately 0.03ng/ml as a capture antibody.

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- ELISA

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Western blot analysis of AHR over-expressed 293 cell line, cotransfected with AHR Validated Chimera RNAi (Cat # H00000196-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with AHR monoclonal antibody (M02), clone 3B12 (Cat # H00000196-M02). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

- Immunofluorescence

Immunofluorescence of monoclonal antibody to AHR on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — AHR

Entrez GeneID	196
GeneBank Accession#	NM_001621
Protein Accession#	NP_001612
Gene Name	AHR
Gene Alias	bHLHe76
Gene Description	aryl hydrocarbon receptor
Omim ID	600253
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a ligand-activated 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. Its ligands included a variety of aromatic hydrocarbons. [provided by RefSeq]
Other Designations	AH-receptor aromatic hydrocarbon receptor

Publication Reference

- [Protective effects of coffee against oxidative stress induced by the tobacco carcinogen benzo\[a\]pyrene.](#)
 Kalthoff S, Landerer S, Reich J, Strassburg CP.
 Free Radical Biology & Medicine 2017 Mar; 108:66.
 Application: WB-Ti, Mouse, Mouse colon, jejunum, liver
- [Cross-talk between Aryl Hydrocarbon Receptor and the inflammatory response: a Role for NF-κB.](#)
 Vogel CF, Khan EM, Leung PS, Gershwin ME, Chang WL, Wu D, Haarmann-Stemmann T, Hoffmann A, Denison MS.
 The Journal of Biological Chemistry 2014 Jan; 289(3):1866.
 Application: WB-Ce, Human, Mouse, Dendritic, MEF cells

- [Gender matters: estrogen receptor alpha \(ER \$\alpha\$ \) and histone deacetylase \(HDAC\) 1 and 2 control the gender-specific transcriptional regulation of human uridine diphosphate glucuronosyltransferases genes \(UGT1A\).](#)

Kalthoff S, Winkler A, Freiberg N, Manns MP, Strassburg CP.

Journal of Hepatology 2013 Oct; 59(4):797.

Application: ChIP, Human, SW403, KYSE70 cells

- [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.

The British Journal of Dermatology 2012 Sep; 167(3):496.

Application: IF, WB, Human, Human monocyte-derived dendritic cells

- [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.

The Journal of Biological Chemistry 2010 May; 285(19):14558.

Application: WB-Ce, Human, A-549 cells

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