

# Product Datasheet

## AHR Antibody (3B12) - Azide and BSA Free H00000196-M02

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00000196-M02**

AHR Antibody (3B12) - Azide and BSA Free

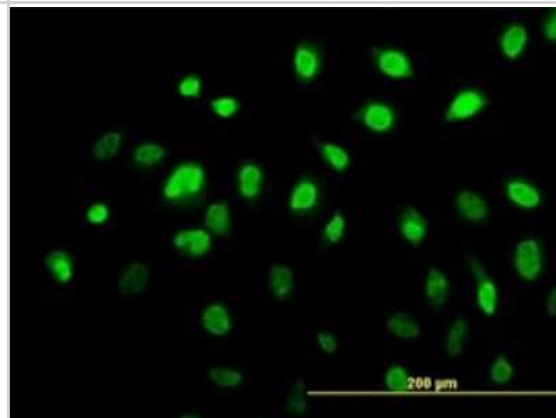
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	3B12
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Product Description</b>	
<b>Description</b>	Quality control test: Antibody Reactive Against Recombinant Protein.
<b>Host</b>	Mouse
<b>Gene ID</b>	196
<b>Gene Symbol</b>	AHR
<b>Species</b>	Human, Mouse
<b>Specificity/Sensitivity</b>	aryl hydrocarbon receptor
<b>Immunogen</b>	AHR (NP_001612, 721 a.a. ~ 820 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MGSFEPSPYPTTSSLEDFVTCLQLPENQKHGLNPQSAITPQTCYAGAVSMYQ CQPEPQHHTVGMQYNPVLPGQQAFLNKFQNGVLNETYPAELNNINN
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA 0.03ng/ml, Immunocytochemistry/ Immunofluorescence 20ug/mL, Immunoprecipitation 1:10-1:500, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
<b>Application Notes</b>	Antibody reactivity against cell lysate, transfected lysate and recombinant protein for WB. It has been used for IF, RNAi Validation, and ELISA. CHIP usage reported in scientific literature (PMID: 23714156).



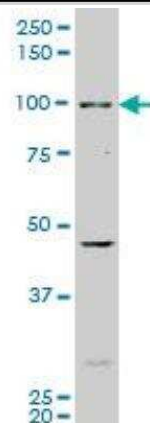
## Images

Western Blot: AHR Antibody (3B12) [H00000196-M02] - 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. 

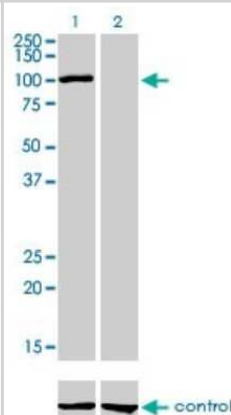
Immunocytochemistry/Immunofluorescence: AHR Antibody (3B12) [H00000196-M02] - Analysis of monoclonal antibody to AHR on HeLa cell. Antibody concentration 10 ug/ml.



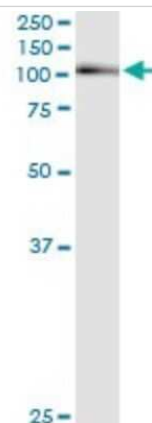
Western Blot: AHR Antibody (3B12) [H00000196-M02] - Analysis of AHR expression in COLO 320 HSR ( Cat # L020V1 ).



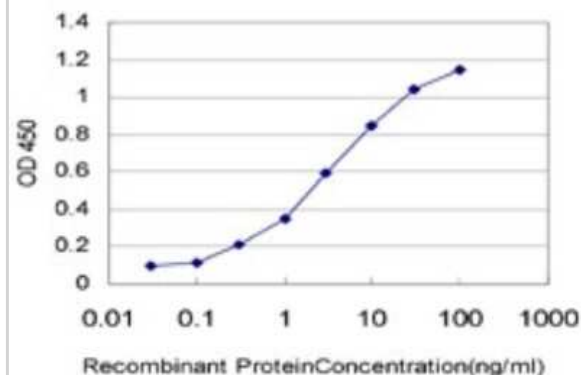
Western Blot: AHR Antibody (3B12) [H00000196-M02] - Analysis of AHR over-expressed 293 cell line, cotransfected with AHR Validated Chimera RNAi ( Cat # H00000196-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with AHR monoclonal antibody (M02), clone 3B12 (Cat # H00000196-M02 ). GAPDH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



Immunoprecipitation: AHR Antibody (3B12) [H00000196-M02] - Analysis of AHR transfected lysate using anti-AHR monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with AHR MaxPab rabbit polyclonal antibody.



ELISA: AHR Antibody (3B12) [H00000196-M02] - Detection limit for recombinant GST tagged AHR is approximately 0.03ng/ml as a capture antibody.



## Publications

Kalthoff S, Landerer S, Reich J, Strassburg CP et al. Protective effects of coffee against oxidative stress induced by the tobacco carcinogen benzo[a]pyrene. *Free Radic Biol Med* 2017-03-12 [PMID: 28300668]

Vlachos C, Schulte BM, Magiatis P et al. Malassezia-derived indoles activate the aryl hydrocarbon receptor and inhibit Toll-like receptor-induced maturation in monocyte-derived dendritic cells. *Br J Dermatol*. 2012-04-19 [PMID: 22533375]

Vogel CF, Khan EM, Leung PS et al. Cross-talk between Aryl Hydrocarbon Receptor and the inflammatory response: a Role for NF- $\kappa$ B. *J Biol Chem*. 2013-12-03 [PMID: 24302727]

Kalthoff S, Winkler A, Freiberg N et al. Gender matters: estrogen receptor alpha (ERalpha) and histone deacetylase (HDAC) 1 and 2 control the gender-specific transcriptional regulation of human uridine diphosphate glucuronosyltransferases genes (UGT1A). *J Hepatol*. 2013-10-01 [PMID: 23714156] (Chemotaxis, IP, Human)

Schults MA, Timmermans L, Godschalk RW et al. Diminished carcinogen detoxification is a novel mechanism for hypoxia-inducible factor 1-mediated genetic instability. *J Biol Chem*;285(19):14558-64. 2010-05-07 [PMID: 20228066]



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### **Products Related to H00000196-M02**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
H00000196-Q01-10ug	Recombinant Human AHR GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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