

AHR Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant AHR.

Catalog # AT1073a

Product Information

Application	WB, IF, IP, E
Primary Accession	P35869
Other Accession	NM_001621
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3B12
Calculated MW	96147

Additional Information

Gene ID	196
Other Names	Aryl hydrocarbon receptor, Ah receptor, AhR, Class E basic helix-loop-helix protein 76, bHLHe76, AHR, BHLHE76
Target/Specificity	AHR (NP_001612, 721 a.a. ~ 820 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	AHR Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

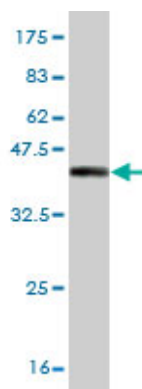
This gene encodes a ligand-activated transcription factor involved in the regulation of biological responses to planar aromatic hydrocarbons. This receptor has been shown to regulate xenobiotic-metabolizing enzymes such as cytochrome P450. Its ligands included a variety of aromatic hydrocarbons.

References

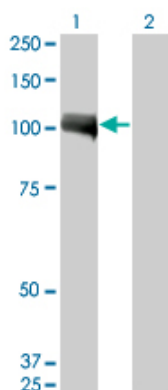
1.Gender matters: estrogen receptor alpha (ER?) and histone deacetylase (HDAC) 1 and 2 control the gender-specific transcriptional regulation of human uridine diphosphate glucuronosyltransferases genes (UGT1A).Kalthoff S, Winkler A, Freiberg N, Manns MP, Strassburg CPJ Hepatol. 2013 May 25. pii:

S0168-8278(13)00360-7. doi: 10.1016/j.jhep.2013.05.028.2. 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.3. 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.

Images



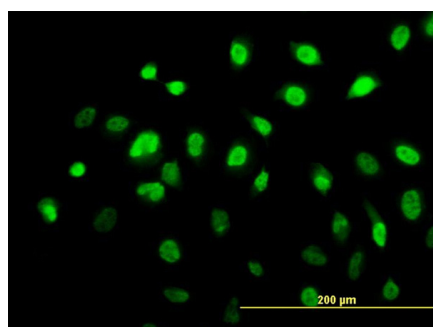
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



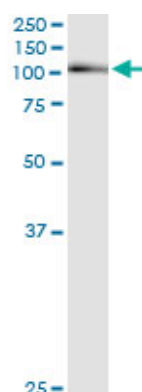
Western Blot analysis of AHR expression in transfected 293T cell line by AHR monoclonal antibody (M02), clone 3B12.

Lane 1: AHR transfected lysate (96.147 KDa).

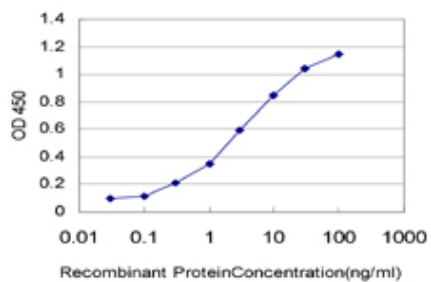
Lane 2: Non-transfected lysate.



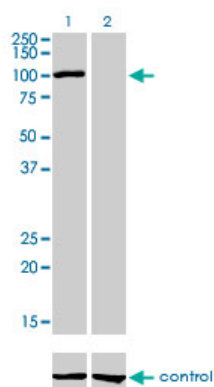
Immunofluorescence of monoclonal antibody to AHR on HeLa cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of AHR transfected lysate using anti-AHR monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with AHR MaxPab rabbit polyclonal antibody.



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



Western blot analysis of AHR over-expressed 293 cell line, cotransfected with AHR Validated Chimera RNAi (Cat # AT1073a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.