

AHR Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant AHR.

Catalog # AT1074a

Product Information

Application	WB, E
Primary Accession	P35869
Other Accession	NM_001621
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3H4
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 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) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

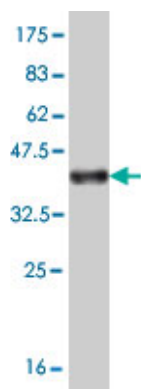
This gene encodes a ligand-activated transcription factor involved in the regulation of biological responses to planar aromatic hydrocarbons. This receptor has been shown to regulate xenobiotic-metabolizing enzymes such as cytochrome P450. Its ligands included a variety of aromatic hydrocarbons.

References

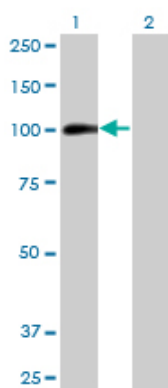
Activation of the aryl hydrocarbon receptor induces human type 1 regulatory T cell-like and Foxp3(+) regulatory T cells. Gandhi R, et al. Nat Immunol, 2010 Sep. PMID 20676092. Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from

Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891. Aryl hydrocarbon receptor is a transcriptional activator of the human breast cancer resistance protein (BCRP/ABCG2). Tan KP, et al. Mol Pharmacol, 2010 Aug. PMID 20460431. A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000. The human AHR: identification of single nucleotide polymorphisms from six ethnic populations. Rowlands CJ, et al. Pharmacogenet Genomics, 2010 May. PMID 20401977.

Images



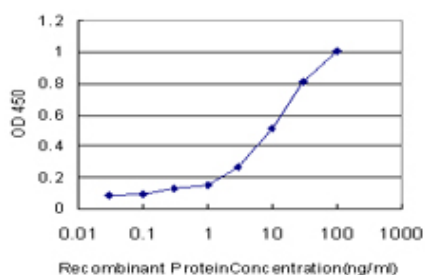
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



Western Blot analysis of AHR expression in transfected 293T cell line by AHR monoclonal antibody (M03), clone 3H4.

Lane 1: AHR transfected lysate (96.1 KDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged AHR is approximately 0.1 ng/ml as a capture antibody.

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