

AHR Antibody (monoclonal) (M03)**Mouse monoclonal antibody raised against a partial recombinant AHR.****Catalog # AT1074a****Specification**

AHR Antibody (monoclonal) (M03) - Product Information

Application	WB, E
Primary Accession	P35869
Other Accession	NM_001621
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	96147

AHR Antibody (monoclonal) (M03) - 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

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.

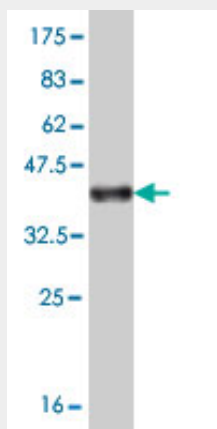
AHR Antibody (monoclonal) (M03) - Protocols

Provided below are standard protocols that you may find useful for product applications.

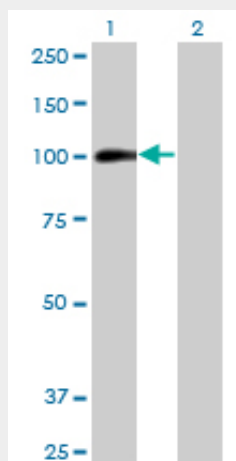
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AHR Antibody (monoclonal) (M03) - Images



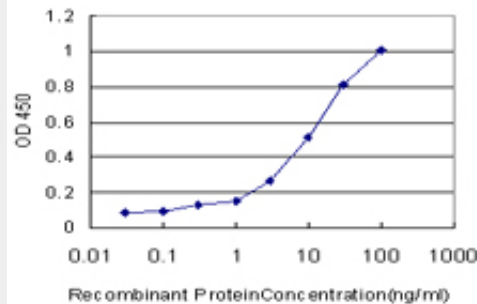
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



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 0.1ng/ml as a capture antibody.

AHR Antibody (monoclonal) (M03) - 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.

AHR Antibody (monoclonal) (M03) - 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.