



Datasheet for ABIN513203

anti-Aryl Hydrocarbon Receptor antibody (AA 721-820)



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Overview

Quantity:	100 µg
Target:	Aryl Hydrocarbon Receptor (AHR)
Binding Specificity:	AA 721-820
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Aryl Hydrocarbon Receptor antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunoprecipitation (IP), RNA Interference (RNAi)

Product Details

Purpose:	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:	MGSFEPSPYP TTSSLEDFVT CLQLPENQKH GLNPQSAIT PQTCYAGAVS MYQCQPEPQH THVGQMQYNP VLPGQQAFLN KFQNGVLNET YPAELNNINN
Clone:	3B12
Isotype:	IgG1
Cross-Reactivity:	Human
Characteristics:	Antibody Reactive Against Recombinant Protein.

Target Details

Target:	Aryl Hydrocarbon Receptor (AHR)
Alternative Name:	AHR (AHR Products)
Background:	Full Gene Name: aryl hydrocarbon receptor Synonyms: bHLHe76
Gene ID:	196
NCBI Accession:	NM_001621
Pathways:	Regulation of Cell Size

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

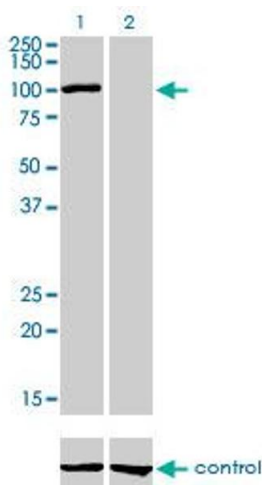
Buffer:	In 1x PBS, pH 7.4
Handling Advice:	Aliquot to avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Publications

Product cited in:	<p>Vogel, Khan, Leung, Gershwin, Chang, Wu, Haarmann-Stemann, Hoffmann, Denison: "Cross-talk between aryl hydrocarbon receptor and the inflammatory response: a role for nuclear factor-κB." in: The Journal of biological chemistry, Vol. 289, Issue 3, pp. 1866-75, (2014) (PubMed).</p> <p>Kalthoff, Winkler, Freiberg, Manns, Strassburg et al.: "Gender matters: estrogen receptor alpha (ERα) and histone deacetylase (HDAC) 1 and 2 control the gender-specific transcriptional regulation of human uridine diphosphate glucuronosyltransferases genes ..." in: Journal of hepatology, Vol. 59, Issue 4, pp. 797-804, (2013) (PubMed).</p> <p>Vlachos, Schulte, Magiatis, Adema, Gaitanis: "Malassezia-derived indoles activate the aryl hydrocarbon receptor and inhibit Toll-like receptor-induced maturation in monocyte-derived</p>
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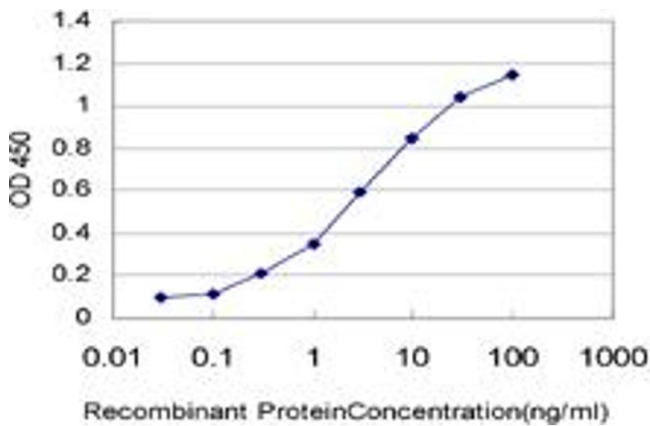
dendritic cells." in: **The British journal of dermatology**, Vol. 167, Issue 3, pp. 496-505, (2012) ([PubMed](#)).

Schults, Timmermans, Godschalk, Theys, Wouters, van Schooten, Chiu: "Diminished carcinogen detoxification is a novel mechanism for hypoxia-inducible factor 1-mediated genetic instability." in: **The Journal of biological chemistry**, Vol. 285, Issue 19, pp. 14558-64, (2010) ([PubMed](#)).



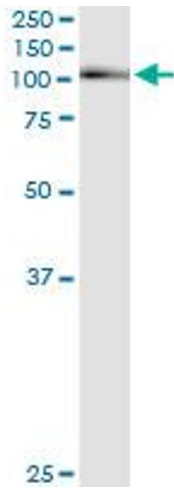
Western Blotting

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



ELISA

Image 2. Detection limit for recombinant GST tagged AHR is approximately 0.03ng/ml as a capture antibody.



Immunoprecipitation

Image 3. Immunoprecipitation of AHR transfected lysate using anti-AHR monoclonal antibody and Protein A Magnetic Bead , and immunoblotted with AHR MaxPab rabbit polyclonal antibody.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN513203.