

Datasheet: AHP1107

Description:	RABBIT ANTI HUMAN AHR
Specificity:	AHR
Other names:	ARYL HYDROCARBON RECEPTOR
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography
Antiserum Preparation	Antisera to human AHR were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Synthetic human AHR.
External Database Links	<p>UniProt: P35869 Related reagents</p> <p>Entrez Gene: 196 AHR Related reagents</p>
Synonyms	BHLHE76
RRID	AB_770062
Specificity	Rabbit anti Human AHR antibody recognises human aryl hydrocarbon receptor (AHR), a ~96 kDa ubiquitously expressed ligand-activated transcription factor. AHR binds planar aromatic hydrocarbons and plays a role in regulating biological responses to them. It activates expression of xenobiotic chemical metabolising enzyme genes such as cytochrome P450. AHR is also involved in cell-cycle regulation and is thought to be involved in tissue maturation.
Histology Positive Control Tissue	Respiratory epithelium and bronchial smooth muscle.
References	<ol style="list-style-type: none"> Tomokiyo, A. <i>et al.</i> (2012) Alternation of extracellular matrix remodeling and apoptosis by activation of the aryl hydrocarbon receptor pathway in human periodontal ligament cells. J Cell Biochem. 113 (10): 3093-103. Dobrzyński, M. <i>et al.</i> (2017) Tooth development disorders in infants of rat dams exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin and protective role of tocopherol and acetylsalicylic acid. Pol J Vet Sci. 20 (4): 769-78.
Further Reading	<ol style="list-style-type: none"> Puga, A. <i>et al.</i> (2002) Role of the aryl hydrocarbon receptor in cell cycle regulation. Chem Biol Interact. 141 (1-2): 117-30. Dale, Y.R. & Eltom, S.E. (2006) Calpain mediates the dioxin-induced activation and down-regulation of the aryl hydrocarbon receptor. Mol Pharmacol. 70 (5): 1481-7.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[100x ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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