

## Datasheet: AHP1311

<b>Description:</b>	RABBIT ANTI HUMAN CD243
<b>Specificity:</b>	CD243
<b>Other names:</b>	MULTIDRUG RESISTANCE PROTEIN 1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			20ug/ml
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.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to human CD243 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 0.5 mg/ml

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**Immunogen** Synthetic peptide: cytoplasmic domain of human CD243, conjugated to keyhole limpet hemocyanin.

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## External Database Links

**UniProt:**  
[P08183](#)   [Related reagents](#)

**Entrez Gene:**  
[5243](#)   ABCB1   [Related reagents](#)

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**Synonyms** MDR1, PGY1

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**RRID** AB\_905905

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**Specificity** **Rabbit anti Human CD243 antibody** detects CD243, also known as MDR1 (multi-drug resistance protein 1) and P-glycoprotein. CD243 is a ~170 kDa membrane-associated protein which functions as an ATP-dependent drug efflux pump with broad substrate specificity.

CD243 is highly expressed in the kidney, liver, adrenal gland and intestine, suggesting a primary role in the secretion of metabolites into bile, urine and the lumen of the intestinal tract. CD243 also prevents the accumulation of toxic compounds in critical organs such as the brain, gonads, and bone marrow, and also functions in the placenta to protect the foetus.

CD243 is rapidly up-regulated by chemotherapeutic drugs and is a well established mediator of multidrug resistance.

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**Histology Positive Control Tissue** Adrenal, cortex.

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**Further Reading** 1. Marzolini, C. *et al.* (2004) Polymorphisms in human MDR1 (P-glycoprotein): recent advances and clinical relevance. [Clin. Pharmacol. Ther. 75: 13-33.](#)

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**Storage** Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
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.

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**Guarantee** 18 months from date of despatch.

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

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## 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

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

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

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

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