

## Datasheet: VMA00324

|                      |                         |
|----------------------|-------------------------|
| <b>Description:</b>  | MOUSE ANTI CD243        |
| <b>Specificity:</b>  | CD243                   |
| <b>Format:</b>       | Purified                |
| <b>Product Type:</b> | PrecisionAb™ Monoclonal |
| <b>Clone:</b>        | OT12C7                  |
| <b>Isotype:</b>      | IgG1                    |
| <b>Quantity:</b>     | 100 µl                  |

## 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 |
|------------------|-----|----|----------------|--------------------|
| Western Blotting | ■   |    |                | 1/1000             |

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

|                                     |                                                                                                                                                                      |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>               | Human                                                                                                                                                                |
| <b>Product Form</b>                 | Purified IgG - liquid                                                                                                                                                |
| <b>Preparation</b>                  | Mouse monoclonal antibody purified by affinity chromatography from ascites                                                                                           |
| <b>Buffer Solution</b>              | Phosphate buffered saline                                                                                                                                            |
| <b>Preservative<br/>Stabilisers</b> | 0.09% Sodium Azide (NaN <sub>3</sub> )<br>1% Bovine Serum Albumin<br>50% Glycerol                                                                                    |
| <b>Immunogen</b>                    | Recombinant protein fragment corresponding to amino acids 995-1280 of human CD243 (NP_000918) produced in SF9 cells                                                  |
| <b>External Database<br/>Links</b>  | <b>UniProt:</b><br><a href="#">P08183</a> <a href="#">Related reagents</a><br><br><b>Entrez Gene:</b><br><a href="#">5243</a> ABCB1 <a href="#">Related reagents</a> |
| <b>Synonyms</b>                     | MDR1, PGY1                                                                                                                                                           |

**Specificity**

**Mouse anti Human CD243 antibody** recognizes the CD243 antigen, also known as multidrug resistance protein 1, P-glycoprotein 1, colchicin sensitivity, doxorubicin resistance and multidrug resistance protein 1 and ATP-binding cassette sub-family B member 1.

This membrane-associated protein, encoded by ABCB1 gene, is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by ABCB1 is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier (provided by RefSeq, Jul 2008).

Mouse anti Human CD243 antibody detects a band of 141 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting**

Anti CD243 detects a band of approximately 141 kDa in HEK293 cell lysates

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**Instructions For Use**

Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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**Storage**

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

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**Shelf Life**

As supplied, 12 months from date of despatch.

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**Acknowledgements**

PrecisionAb™ is a trademark of Bio-Rad Laboratories.

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**Health And Safety Information**

Material Safety Datasheet documentation #10048 available at:  
Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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