

## Datasheet: MCA1296P

<b>Description:</b>	MOUSE ANTI RAT KAPPA/LAMBDA LIGHT CHAIN:HRP
<b>Specificity:</b>	KAPPA/LAMBDA LIGHT CHAIN
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MARK-1 / MARL-15
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.5 mg

## 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
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.5ug/ml as detecting antibody
Western Blotting			▪	

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.

<b>Target Species</b>	Rat
<b>Product Form</b>	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal 50% glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 1 mg/ml

**Immunogen** MARK-1: Rat kappa light chains (IR202 and IR968) MARL-15: Rat lambda light chains (RH58, IR31)

---

**External Database Links**

**UniProt:**

[P01835](#) [Related reagents](#)  
[P01836](#) [Related reagents](#)  
[P20766](#) [Related reagents](#)  
[P20767](#) [Related reagents](#)

**Entrez Gene:**

[500180](#) LOC500180 [Related reagents](#)  
[363828](#) RGD1564318 [Related reagents](#)

---

**RRID** AB\_322603

---

**Fusion Partners** Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0 (MARK-1) or PAI-O (MARL-15) mouse myeloma cell line.

---

**Specificity** **Mouse anti Rat Kappa/Lambda Light Chain: antibody cocktail** is a mixture of clones MARK-1 and MARL-15 recognizing rat kappa and lambda light chains respectively. The cocktail does not recognize immunoglobulin heavy chains.

---

**ELISA** HRP-conjugated MARK-1/MARL-15 clone cocktail may be used as a detection reagent for rat immunoglobulins in ELISA assays and can be used in combination with coating antibodies:

rat IgG1 [MCA194](#)  
rat IgG2a [MCA278](#)  
rat IgG2b [MCA1294](#)  
rat IgG2c [MCA1295](#)  
rat IgM [MCA189](#)  
rat IgE [MCA193](#)  
rat IgA [MCA191](#)

---

**References**

1. Cousins, L. *et al.* (2006) Eosinophilic bowel disease controlled by the BB rat-derived lymphopenia/Gimap5 gene. [Gastroenterology. 131:1475-85.](#)
2. Daley, S.R. *et al.* (2007) A key role for TGF-beta signaling to T cells in the long-term acceptance of allografts. [J Immunol. 179 \(6\): 3648-54.](#)
3. Daley, S.R. *et al.* (2008) Fc-disabled anti-mouse CD40L antibodies retain efficacy in promoting transplantation tolerance. [Am J Transplant. 8 \(11\): 2265-71.](#)
4. Sun, Q. *et al.* (2012) Upregulated protein arginine methyltransferase 1 by IL-4 increases eotaxin-1 expression in airway epithelial cells and participates in antigen-induced pulmonary inflammation in rats. [J Immunol. 188 \(7\): 3506-12.](#)
5. Sandin, L.C. *et al.* (2014) Locally delivered CD40 agonist antibody accumulates in secondary lymphoid organs and eradicates experimental disseminated bladder cancer. [Cancer Immunol Res. 2 \(1\): 80-90.](#)

<b>Storage</b>	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.  Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10097 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1296P">https://www.bio-rad-antibodies.com/SDS/MCA1296P</a> 10097
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

[AbGUARD® HRP STABILIZER PLUS \(BUF052A\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052B\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052C\)](#)

[TMB CORE \(BUF056A\)](#)

[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M409082:221017'

**Printed on 18 Jan 2024**

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)