Datasheet: MCA1038GA
BATCH NUMBER 156446

### Product Details

**Description:** RAT ANTI DOG CD4  
**Specificity:** CD4  
**Format:** Purified  
**Product Type:** Monoclonal Antibody  
**Clone:** YKIX302.9  
**Isotype:** IgG2a  
**Quantity:** 0.1 mg  

**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).

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<th>Method</th>
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<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
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<td>Flow Cytometry</td>
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<td></td>
<td></td>
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<td>Immunohistology - Frozen</td>
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<td>Western Blotting</td>
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Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

**Target Species**  
Dog

**Product Form**  
Purified IgG - liquid

**Preparation**  
Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution**  
Phosphate buffered saline

**Preservative Stabilisers**  
0.09% Sodium Azide (NaN₃)

**Carrier Free**  
Yes
Approx. Protein Concentrations

| IgG concentration 1.0 mg/ml |

Immunogen

| Canine concanavilin A activated T cell blasts. |

External Database Links

| UniProt: P33705 Related reagents |

| Entrez Gene: 403931 CD4 Related reagents |

Fusion Partners

| Spleen cells from immunised DA rats were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line. |

Specificity

| Rat anti Dog CD4 antibody, clone YKIX302.9, is a monoclonal antibody specific for the canine CD4 cell surface antigen. Clone YKIX302.9 was clustered at the first Canine Leukocyte Antigen Workshop (CLAW) [Cobbold et al. 1992] along with clone CA13.1E4. Rat anti Dog CD4 antibody, clone YKIX302.9 partially depletes circulating T lymphocytes when administered in vivo, but alone is not sufficient to prolong allograft survival in a canine transplant model (Watson et al. 1993). Uniquely amongst mammals, canine CD4 is expressed by neutrophils as well as by lymphocyte subsets (Moore et al. 1992). |

Flow Cytometry

| Use 10ul of the suggested working dilution to label 10^6 cells or 100ul whole blood. |

References


**Storage**

Store at +4°C or at -20°C if preferred.

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.
Guarantee
12 months from date of despatch

Health And Safety
Information
Material Safety Datasheet documentation #10040 available at:
https://www.bio-rad-antibodies.com/SDS/MCA1038GA
10040

Regulatory
For research purposes only

Related Products

**Recommended Secondary Antibodies**

Rabbit Anti Rat IgG (STAR16...)  \[\text{DyLight®800}\]
Rabbit Anti Rat IgG (STAR17...)  \[\text{FITC}\]
Goat Anti Rat IgG (STAR72...)  \[\text{HRP}\]
Goat Anti Rat IgG (STAR69...)  \[\text{FITC}\]
Goat Anti Rat IgG (STAR73...)  \[\text{RPE}\]
Rabbit Anti Rat IgG (STAR21...)  \[\text{HRP}\]
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)  \[\text{DyLight®550, DyLight®650, DyLight®800}\]
Goat Anti Rat IgG (STAR131...)  \[\text{Alk. Phos., Biotin}\]

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'M364887:200529'

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