## 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).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<td></td>
<td></td>
<td>1/50 - 1/100</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<tr>
<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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</table>

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 concanavalin 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
27. Gelain, M.E. et al. (2014) CD44 in canine leukemia: analysis of mRNA and protein...
45. Yasuda, N. et al. (2008) CC chemokine receptor 4-positive CD4(+) lymphocytes in...


<table>
<thead>
<tr>
<th>Storage</th>
<th>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.</th>
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</thead>
<tbody>
<tr>
<td>Guarantee</td>
<td>12 months from date of despatch</td>
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<tr>
<td>Health And Safety</td>
<td>Material Safety Datasheet documentation #10040 available at:</td>
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</tbody>
</table>
Related Products

**Recommended Secondary Antibodies**

- Rabbit Anti Rat IgG (STAR16...)
- Rabbit Anti Rat IgG (STAR17...)
- Goat Anti Rat IgG (STAR72...)
- Goat Anti Rat IgG (STAR69...)
- Goat Anti Rat IgG (STAR73...)
- Rabbit Anti Rat IgG (STAR21...)
- Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)
- Goat Anti Rat IgG (STAR131...)

**DyLight®800**
- DyLight®800
- DyLight®650
- DyLight®550

**FITC**
- FITC
- Alk. Phos.
- Biotin

**HRP**
- HRP
- Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)

**RPE**
- RPE

**Rabbit Anti Rat IgG (STAR21...)**
- Goat Anti Rat IgG (STAR131...)

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

'M382887:210513'

Printed on 21 Nov 2023