Datasheet: STAR17B

Description:	RABBIT F(ab')2 ANTI RAT IgG:FITC
Specificity:	IgG
Format:	FITC
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	1 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/200 - 1/400
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

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

Rat

Product Form

$F(ab')_2$ fragment of IgG conjugated to Fluorescein Isothiocyanate Isomer I (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

Antiserum Preparation

Antisera to rat IgG were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography. $F(ab')_2$ fragments were prepared by pepsin digestion of the IgG followed by a gel filtration step to remove the remaining intact IgG or Fc fragments.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide

Approx. Protein

IgG concentration 1.0 mg/ml

Concentrations	
External Database Links	**UniProt:** P20759 Related reagents P20761 Related reagents P20762 Related reagents P20760 Related reagents **Entrez Gene:** 299354 Ighg Related reagents 362795 LOC362795 Related reagents 679045 LOC679045 Related reagents
RRID	AB_321939
Specificity	**Rabbit F(ab')$_2$ anti Rat IgG antibody** recognizes Rat IgG.
Flow Cytometry	Use 50ul of the suggested working dilution to label 10^6 cells in 100ul.

References

1. O-Charoenrat, P. *et al.* (2000) Epidermal growth factor-like ligands differentially up-regulate matrix metalloproteinase 9 in head and neck squamous carcinoma cells. Cancer Res. 60: 1121 - 1128.
2. Leposavić, G. *et al.* (2010) Age-associated plasticity of α1-adrenoceptor-mediated tuning of T-cell development. Exp Gerontol. 45 (12): 918-35.
3. Tiwari, S. (2011) Divalent cations regulate the folding and activation status of integrins during their intracellular trafficking. J Cell Sci. 124: 1672-80.
4. Reynolds, J. *et al.* (2012) Stimulation of the PD-1/PDL-1 T-cell co-inhibitory pathway is effective in treatment of experimental autoimmune glomerulonephritis. Nephrol Dial Transplant. 27 (4): 1343-50.
5. Villiers, E. *et al.* (2006) Identification of acute myeloid leukemia in dogs using flow cytometry with myeloperoxidase, MAC387, and a canine neutrophil-specific antibody. Vet Clin Pathol. 35 (1): 55-71.
6. Uner, A. G. *et al.* (2013) Blood Levels of Selected Metabolic Factors, Cytokines, and Lymphocyte Subpopulations in Arabian and Thoroughbred Horses During the Longest and Shortest Days of the Year J of Equine Vet Sci. 33 (11): 969-976.
7. Willheim, M. *et al.* (1999) Regulatory effects of 1alpha,25-dihydroxyvitamin D3 on the cytokine production of human peripheral blood lymphocytes. J Clin Endocrinol Metab. 84 (10): 3739-44.
8. Thien, R. *et al.* (2005) Interactions of 1 alpha,25-dihydroxyvitamin D3 with IL-12 and IL-4 on cytokine expression of human T lymphocytes. J Allergy Clin Immunol. 116 (3): 683-9.
9. Cian, F. *et al.* (2014) Stability of immunophenotypic lymphoid markers in fixed canine peripheral blood for flow cytometric analysis. Vet Clin Pathol. 43 (1): 101-8.
10. Ferreira-Dias G *et al.* (2005) Seasonal reproduction in the mare: possible role of plasma leptin, body weight and immune status. Domest Anim Endocrinol. 29 (1): 203-13.
11. Liu, W. *et al.* (2015) Evaluation of Stem Cell Marker Expression in Canine B-Cell Lymphoma Cell Lines, B-Cell Lymphoma-generated Spheres and Primary Samples.

Anticancer Res. 35 (5): 2805-16.
12. Platt, R. *et al.* (2010) Cell-mediated immunity evaluation in foals infected with virulent equine herpesvirus-1 by multi-parameter flow cytometry. Vet Immunol Immunopathol. 135 (3-4): 275-81.
13. Van de Velde, H. *et al.* (2012) Short-term increase of body weight triggers immunological variables in dogs. Vet Immunol Immunopathol. 145 (1-2): 431-7.
14. Agrícola R *et al.* (2008) Blood lymphocyte subpopulations, neutrophil phagocytosis and proteinogram during late pregnancy and postpartum in mares. Reprod Domest Anim. 43 (2): 212-7.
15. Liu, W. *et al.* (2020) Establishment and characterization of stable red, far-red (fR) and near infra-red (NIR) transfected canine prostate cancer cell lines. Cancer Cell Int. 20: 139.

Storage	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. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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
Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: 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
'M385533:210513'

Printed on 21 Mar 2022