

Datasheet: STAR21B

BATCH NUMBER 165235

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| Description: | RABBIT F(ab') ₂ ANTI RAT IgG:HRP |
| Specificity: | IgG |
| Format: | HRP |
| 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 |
|----------------------------|-----|----|----------------|--------------------|
| Immunohistology - Frozen | ▪ | | | 1/50 |
| Immunohistology - Paraffin | ▪ | | | 1/50 |
| Immunohistology - Resin | ▪ | | | 1/50 |
| ELISA | ▪ | | | 1/500 - 1/1000 |
| Western Blotting | | | ▪ | |

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

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid

Preparation

Purified IgG prepared by affinity chromatography of serum

Buffer Solution

Phosphate buffered saline

Preservative

0.01% Thiomersal

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Purified rat immunoglobulin G.

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_322847

Specificity

Horseradish peroxidase conjugated Rabbit F(ab')₂ anti Rat IgG antibody recognizes Rat immunoglobulin G. Sera from rabbits hyperimmunised with highly purified rat IgG was affinity purified on a rat IgG column. Digestion to F(ab')₂ with pepsin was then performed, the resulting fragments were conjugated to horseradish peroxidase using the periodate method.

Cross reactivity is observed with mouse IgG but may be blocked by the addition of 10% mouse serum.

References

1. Hampson, G. *et al.* (2010) Validation of an ELISA for the determination of rituximab pharmacokinetics in clinical trials subjects. [J Immunol Methods. 360 \(1-2\): 30-8.](#)
 2. Modjtahedi, H. *et al.* (2012) Immunohistochemical discrimination of wild-type EGFR from EGFRvIII in fixed tumour specimens using anti-EGFR mAbs ICR9 and ICR10. [Br J Cancer. 106 \(5\): 883-8.](#)
 3. Gholami, M. *et al.* (2015) Selenium effect on ischemia-reperfusion injury of gastrocnemius muscle in adult rats. [Biol Trace Elem Res. 164 \(2\): 205-11.](#)
 4. Zschemisch NH *et al.* (2016) Transcription Factor SP2 Enhanced the Expression of Cd14 in Colitis-Susceptible C3H/HeJBir. [PLoS One. 11 \(5\): e0155821.](#)
 5. Gholami, M.R. *et al.* (2020) Protective effects of honey, *Apis mellifera meda*. skorikov, on ischemia-reperfusion induced muscle injury. [Int J Morphol., 38 \(3\): 804-10,](#)
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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.

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| Guarantee | 12 months from date of despatch |
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| Health And Safety Information | Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/STAR21B 10094 |
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|-------------------|----------------------------|
| Regulatory | 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+ \(BUF054A\)](#)

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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)

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