

Datasheet: AHP999

BATCH NUMBER 152855

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|----------------------|------------------------------------|
| Description: | RABBIT ANTI MOUSE ST2 (N-TERMINAL) |
| Specificity: | ST2 (N-TERMINAL) |
| Format: | Purified |
| Product Type: | Polyclonal Antibody |
| Isotype: | Polyclonal IgG |
| Quantity: | 0.1 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 | | | ▪ | |
| Immunohistology - Frozen | | | ▪ | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | | | ▪ | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | 1 - 2ug/ml |

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.

Target Species Mouse

Product Form Purified IgG - liquid

Antiserum Preparation Antisera to mouse ST2 (NT) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.02% Sodium Azide

Approx. Protein Concentrations IgG concentration 1.0mg/ml

Immunogen A 16 amino acid synthetic peptide located near mouse ST2 amino-terminus. This peptide is common to the three known isoforms of ST2.

External Database Links

UniProt:

[P14719](#) [Related reagents](#)

Entrez Gene:

[17082](#) Il1rl1 [Related reagents](#)

Synonyms Ly84, St2, Ste2

RRID AB_2125319

Specificity

Rabbit anti Mouse ST2 (N-Terminal) antibody recognizes an epitope within the N-Terminal region (NT) of mouse ST2, a member of the Toll-interleukin 1 receptor (TIR) superfamily, expressed by mast cells and TH₂ helper cells, but not by TH₁ effector cells.

The majority of TIR superfamily members, which includes the Interleukin-1 receptor (IL-1R1), Toll-like receptors (TLRs) and the cytosolic adaptor proteins MyD88, TIRAP, Trif and TRAM, initiate innate immunity through the ultimate activation of the transcription factor NF-kappaB and are inducers of the inflammatory response. In contrast ST2, which itself is unable to activate NF-kappaB, has been identified as a negative regulator of IL-1R1 and TLR4 signaling by sequestering MyD88 and TIRAP in line with its role as a crucial receptor in TH₂-cell mediated responses ([Brint *et al.* 2004](#) and [Coyle *et al.* 1999](#)).

Western Blotting AHP999 detects a band of approximately 45kDa in mouse kidney cell lysates. (Predicted Mwt. 62 kDa).

Further Reading

1. Brint, E.K. *et al.* (2004) ST2 is an inhibitor of interleukin 1 receptor and Toll-like receptor 4 signaling and maintains endotoxin tolerance. [Nat Immunol. 5 \(4\): 373-9.](#)
 2. Coyle, A.J. *et al.* (1999) Crucial role of the interleukin 1 receptor family member T1/ST2 in T helper cell type 2-mediated lung mucosal immune responses. [J Exp Med. 190 \(7\): 895-902.](#)
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Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
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/AHP999>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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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

'M364412:200529'

Printed on 29 Feb 2024

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