

Datasheet: AHP773

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| Description: | RABBIT ANTI HUMAN GRO BETA |
| Specificity: | GRO BETA |
| Other names: | CXCL2 |
| 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 (1) | ▪ | | | |
| ELISA | ▪ | | | 0.5ug/ml |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | 0.1 - 0.2ug/ml |
| Functional Assays | ▪ | | | 0.5 - 1.0ug/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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

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| Target Species | Human |
| Product Form | Purified IgG - lyophilized |
| Reconstitution | Reconstitute with 0.1ml distilled water. For long term storage the addition of 0.09% sodium azide is recommended. NB. For functional studies do not azide. |
| Antiserum Preparation | Antisera to human GRO-beta were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography. |

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| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | None present |
| Carrier Free | Yes |
| Approx. Protein Concentrations | IgG concentration 1.0mg/ml |
| Immunogen | Recombinant human GRO-beta. |
| External Database Links | <p>UniProt: P19875 Related reagents</p> <p>Entrez Gene: 2920 CXCL2 Related reagents</p> |
| Synonyms | GRO2, GROB, MIP2A, SCYB2 |
| RRID | AB_2086316 |
| Specificity | <p>Rabbit anti Human GRO beta antibody recognizes human GRO-beta, also known as Growth-regulated protein beta, C-X-C motif chemokine 2, Macrophage inflammatory protein 2-alpha, MIP-2α or CXCL2. GRO beta is a ~7.9 kDa CXC chemokine and one of three closely related, but distinct GRO gene products, which act as chemoattractants and activators of neutrophils and basophils.</p> <p>Like GRO-alpha (CXCL1) and GRO-gamma (CXCL3), GRO-beta contains the ELR-motif (N-terminal Glu-Leu-Arg amino acid sequence) and signals through the CXCR1 and CXCR2 receptors, GRO-beta has a lower potency and receptor binding affinity (Geiser et al. 1993).</p> |
| References | <ol style="list-style-type: none"> Haskill, S. <i>et al.</i> (1990) Identification of three related human GRO genes encoding cytokine functions. Proc Natl Acad Sci U S A. 87 (19): 7732-6. Geiser, T. <i>et al.</i> (1993) The interleukin-8-related chemotactic cytokines GRO alpha, GRO beta, and GRO gamma activate human neutrophil and basophil leukocytes. J Biol Chem. 268 (21): 15419-24. Kogan-sakin, I. <i>et al.</i> (2009) Prostate stromal cells produce CXCL-1, CXCL-2, CXCL-3 and IL-8 in response to epithelia-secreted IL-1. Carcinogenesis. 30 (4): 698-705. Urbantat,R.M. <i>et al.</i> (2021) The CXCL2/IL8/CXCR2 Pathway Is Relevant for Brain Tumor Malignancy and Endothelial Cell Function International Journal of Molecular Sciences. 22 (5): 2634. |
| Storage | <p>Prior to reconstitution store at -20°C. After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not</p> |

recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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| Guarantee | 12 months from date of despatch |
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| Health And Safety Information | Material Safety Datasheet documentation #10294 available at: 10294: https://www.bio-rad-antibodies.com/uploads/MSDS/10294.pdf |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

- [ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
- [TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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| 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 |
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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
'M402210:220718'

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