

Datasheet: AHP773

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.

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.

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"> 1. 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. 2. Urbantat, R.M. <i>et al.</i> (2021) The CXCL2/IL8/CXCR2 Pathway Is Relevant for Brain Tumor Malignancy and Endothelial Cell Function. Int J Mol Sci. 22 (5): 2634.
Further Reading	<ol style="list-style-type: none"> 1. 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. 2. 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.
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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10294 available at: https://www.bio-rad-antibodies.com/SDS/AHP773 10294
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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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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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