

Datasheet: AHP1801

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| Description: | RABBIT ANTI HUMAN DEFENSIN BETA 1 |
| Specificity: | DEFENSIN BETA 1 |
| Other names: | BD-1 |
| 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 | ▪ | | | 0.5 - 2.0ug/ml |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | 0.1 - 0.2ug/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.

(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 - lyophilised |
| Reconstitution | Reconstitute with 0.1ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended. |
| Antiserum Preparation | Antiserum to human defensin beta 1 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography. |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | None present |

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| Approx. Protein Concentrations | IgG concentration 1.0mg/ml after reconstitution |
| Immunogen | Recombinant human defensinβ-1 |
| External Database Links | <p>UniProt: P60022 Related reagents</p> <p>Entrez Gene: 1672 DEFB1 Related reagents</p> |
| Synonyms | BD1, HBD1 |
| Specificity | <p>Rabbit anti Human defensinβ-1 polyclonal antibody recognizes human defensin beta 1 (BD-1), a secreted cationic antimicrobial peptide and member of the beta-defensin family, expressed at epithelial surfaces, which plays an important role in innate immunity.</p> <p>The activity of BD-1 is compromised in patients with Cystic Fibrosis due to salt-dependent inactivation (Goldman <i>et al.</i> 1997).</p> |
| References | 1. Kelly CJ <i>et al.</i> (2013) Fundamental role for HIF-1 α in constitutive expression of human β defensin-1. Mucosal Immunol. 6 (6): 1110-8. |
| Further Reading | 1. Goldman, M.J. <i>et al.</i> (1997) Human beta-defensin-1 is a salt-sensitive antibiotic in lung that is inactivated in cystic fibrosis. Cell. 88: 553-60. |
| Storage | <p>Prior to reconstitution store at +4°C. After reconstitution store at -20°C. 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.</p> |
| Shelf Life | 12 months from date of reconstitution. |
| Health And Safety Information | Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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| Sheep Anti Rabbit IgG (STAR34...) | FITC |
| Sheep Anti Rabbit IgG (STAR35...) | RPE |
| Goat Anti Rabbit IgG (H/L) (STAR124...) | HRP |
| Goat Anti Rabbit IgG (Fc) (STAR121...) | Biotin , FITC , HRP |
| Sheep Anti Rabbit IgG (2AB02...) | Biotin |
| Sheep Anti Rabbit IgG (STAR36...) | DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 |

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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

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