

Datasheet: PHP208

Description:	RECOMBINANT HUMAN DEFENSIN ALPHA 1
Name:	DEFENSIN ALPHA 1
Other names:	HNP-1
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	20 µg

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
ELISA	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			

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	Human
Product Form	Purified recombinant protein - lyophilised
Reconstitution	Reconstitute with 0.2ml 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.
Preparation	Purified recombinant defensin- α -1 expressed in <i>E.coli</i>
Preservative Stabilisers	None present
Endotoxin Level	<1EU/ug
Approx. Protein Concentrations	0.1mg/ml after reconstitution

External Database Links

UniProt:

[P59665](#) [Related reagents](#)

Entrez Gene:

[1667](#) DEFA1 [Related reagents](#)

Synonyms	DEF1, DEFA2, MRS
Product Information	Recombinant Human Defensin-α-1 is a 3.4kDa peptide comprised of 30 amino acid residues corresponding to full-length mature human defenstin alpha 1. Defensin- α -1, otherwise known as HNP-1, is a secreted cationic antimicrobial peptide and member of the alpha-defensin family, which plays an important role in the innate immune response against microbial infections.
Molecular Weight	3.4kD (30 amino acid residues)
Activity	Determined by its ability to chemoattract immature dendritic cells using a concentration of 1.0-10.0 ng/ml.
Purity	>98% by SDS PAGE and HPLC analysis
ELISA	Recombinant human defensin- α -1 may be used as a standard for ELISA applications with either a purified anti human defensin-α-1 antibody (AHP1781) or a biotinylated anti human defensin-α-1 antibody (AHP1781B).
Western Blotting	Recombinant human defensin- α -1 may be used as a positive control for Western Blotting applications with either a purified human defensin-α-1 antibody (AHP1781) or a biotinylated human defensin-α-1 antibody (AHP1781B).
Storage	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.
Shelf Life	3 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet Documentation #10268 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10268.pdf
Regulatory	For research purposes only

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Printed on 25 May 2017