

For Research Use Only

# DEFB132 Polyclonal antibody

Catalog Number: 33219-1-AP



## Basic Information

<b>Catalog Number:</b> 33219-1-AP	<b>GenBank Accession Number:</b> BC137293	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 310 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 400830	<b>Recommended Dilutions:</b> IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q7Z7B7	
<b>Isotype:</b> IgG	<b>Full Name:</b> defensin, beta 132	
<b>Immunogen Catalog Number:</b> AG37893	<b>Observed MW:</b> 11 kDa	

## Applications

<b>Tested Applications:</b> IHC, IP, ELISA	<b>Positive Controls:</b> IP : LNCaP cells, IHC : human urothelial carcinoma tissue,
<b>Species Specificity:</b> human	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Human DEFB132 (Defensin Beta 132) is a member of the beta-defensin family and functions as a secreted antimicrobial peptide. This protein is highly expressed in epididymal epithelial cells and sperm, regulated by the androgen receptor signaling pathway, and serves as a key effector molecule of innate immunity in the male reproductive tract. DEFB132 exhibits broad-spectrum antimicrobial activity, inhibiting both Gram-negative bacteria such as *Escherichia coli* and Gram-positive bacteria such as *Staphylococcus aureus*, exerting its bactericidal function by disrupting the cell membranes of pathogens. As an inducible immune effector molecule, it plays multiple biological roles in host defense, reproductive health, and metabolic homeostasis.

## Storage

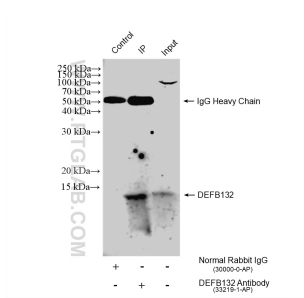
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

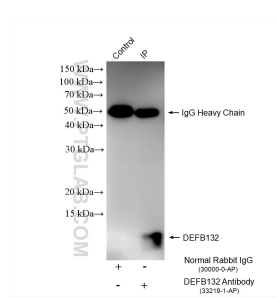
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

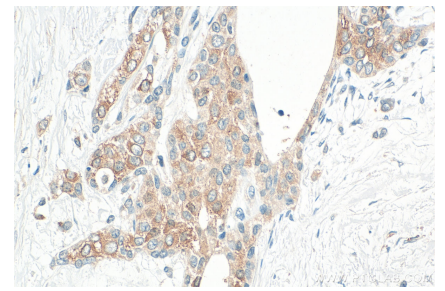
## Selected Validation Data



IP result of anti-DEFB132 (IP:33219-1-AP, 4ug; Detection:33219-1-AP 1:500) with LNCaP cells lysate 880 ug.



IP result of anti-DEFB132 (IP:33219-1-AP, 4ug; Detection:33219-1-AP 1:500) with LNCaP cells lysate 880 ug.



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 33219-1-AP (DEFB132 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).