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DEFB1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10958a

Specification

DEFB1 Antibody (N-term) - Product Information

Application	**FC, IF, IHC-P, WB,E**
Primary Accession	P60022
Other Accession	P61261, NP_005209.1
Reactivity	**Human**
Predicted	**Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**11-36**

DEFB1 Antibody (N-term) - Additional Information

Gene ID 1672

Other Names
Beta-defensin 1, BD-1, hBD-1, Defensin, beta 1, DEFB1, BD1, HBD1

Target/Specificity
This DEFB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 11-36 amino acids from the N-terminal region of human DEFB1.

Dilution
FC~~1:10~50
IF~~1:10~50
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DEFB1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DEFB1 Antibody (N-term) - Protein Information

Name DEFB1

Synonyms BD1, HBD1

Function Has bactericidal activity. May act as a ligand for C-C chemokine receptor CCR6. Positively regulates the sperm motility and bactericidal activity in a CCR6-dependent manner. Binds to CCR6 and triggers Ca2+ mobilization in the sperm which is important for its motility (PubMed:25122636).

Cellular Location
Secreted. Membrane. Note=Associates with tumor cell membrane-derived microvesicles (PubMed:23938203)

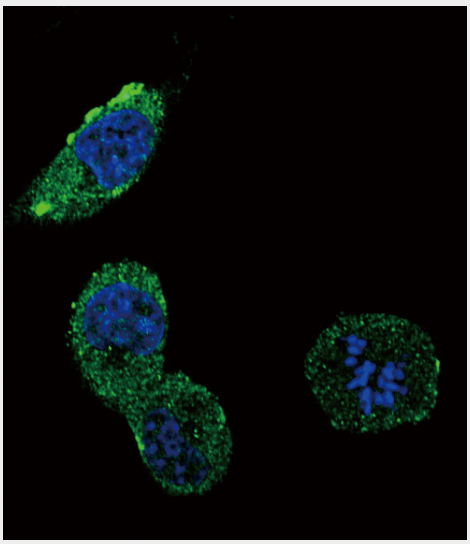
Tissue Location
Blood plasma. Sperm. Highly expressed in the lower head and midpiece of sperm. Significantly reduced levels found in the sperms of asthenozoospermia and leukocytospermia patients (at protein level).

DEFB1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DEFB1 Antibody (N-term) - Images



Confocal immunofluorescent analysis of DEFB1 Antibody (N-term)(Cat#AP10958a) with MDA-MB231 cell followed by Alexa Fluor?488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

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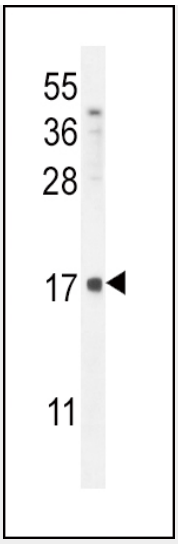
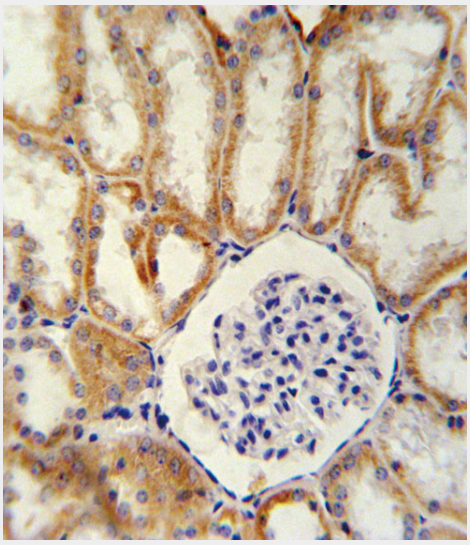


DEFB1 Antibody (N-term) (Cat. #AP10958a) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the DEFB1 antibody detected the DEFB1 protein (arrow).



DEFB1 antibody (N-term) (Cat. #AP10958a) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the DEFB1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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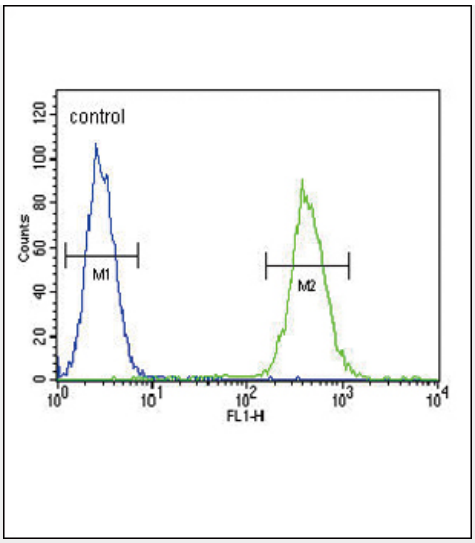

DEFB1 Antibody (N-term) (Cat. #AP10958a) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

DEFB1 Antibody (N-term) - Background

Defensins form a family of microbicidal and cytotoxic peptides made by neutrophils. Members of the defensin family are highly similar in protein sequence. This gene encodes defensin, beta 1, an antimicrobial peptide implicated in the resistance of epithelial surfaces to microbial colonization. This gene maps in close proximity to defensin family member, defensin, alpha 1 and has been implicated in the pathogenesis of cystic fibrosis.

DEFB1 Antibody (N-term) - References

Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) : Garreis, F., et al. Histochem. Cell Biol. 134(1):59-73(2010) Segat, L., et al. Int. J. Dermatol. 49(6):653-657(2010) Tiszlavicz, Z., et al. Pancreatology 10(4):483-490(2010) Yin, L., et al. BMC Immunol. 11, 37 (2010) :