

Anti-Beta Defensin 1 Antibody

Catalog # ABO10770

Product Information

Application	WB, IHC-P
Primary Accession	P60022
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Beta-defensin 1(DEFB1) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	1672
Other Names	Beta-defensin 1, BD-1, hBD-1, Defensin, beta 1, DEFB1, BD1, HBD1
Calculated MW	7420
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Secreted.
Tissue Specificity	Plasma.
Source	Eukaryota
Protein Name	Beta-defensin 1(BD-1/hBD-1)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human beta Defensin 1(52-68aa FTKIQTGTCYRGKAKCCK).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated

Sequence Similarities

freezing and thawing.
Belongs to the beta-defensin family.

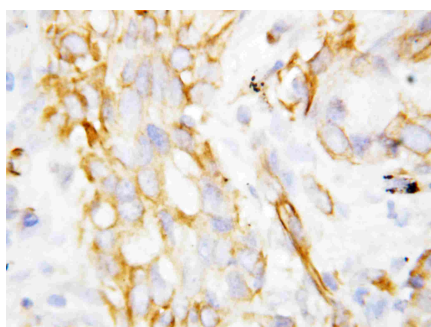
Protein Information

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 Ca ²⁺ 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).

Background

DEFB1, Beta-defensin 1, is a protein that in humans is encoded by the DEFB1 gene. DEFB1 belongs to the defensin family. Defensins form a family of microbicidal and cytotoxic peptides made by neutrophils. The DEFB1 gene spans more than 7 kb and includes a large 6,962-bp intron. By 2-color fluorescence in situ hybridization on both metaphase chromosomes and released chromatin fiber, the DEFB1 gene is mapped to 8p23.2-p23.1, within 100 to 150 kb of the gene for human neutrophil defensin-alpha-1. DEFB1 may augment neonatal host defenses through antimicrobial effects or prime the adaptive immune system at mucosal surfaces.

Images



Anti-beta Defensin 1 antibody, ABO10770, IHC(P)IHC(P):
Lung Cancer Tissue



Anti-beta Defensin 1 antibody, ABO10770, Western blotting
All lanes: Anti Defensin 1 (ABO10770) at 0.5ug/ml
WB : COLO320 Whole Cell Lysate at 40ug
Predicted bind size: 7KD
Observed bind size: 7KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.