

Rabbit Anti-DEFB2/Beta-Defensin 2 Polyclonal: RC0050

Intended Use: For Research Use Only

Description: Beta-defensins are expressed on some leukocytes and at epithelial surfaces. In addition to their direct antimicrobial activities, they can act as chemoattractants towards immature dendritic cells and memory T cells. The beta-defensin proteins are expressed as the C-terminal portion of precursors, and are released by proteolytic cleavage of a signal sequence and, in some cases, a propeptide sequence. Beta-defensins contain a six-cysteine motif that forms three intramolecular disulfide bonds. Beta-Defensin 2 or DEFB2 is a cystein-rich cationic 41 amino acid antimicrobial peptide of 4-5 kDa. Human DEFB2 is produced by epithelial cells upon stimulus by lipopolysaccharides and proinflammatory cytokines TNFalpha and IL1beta. Contact of keratinocytes with gram-negative bacteria results in rapid induction of DEFB2 protein. DEFB2 has been described as a dynamic component of the local epithelial defense system of the skin, intestinal and respiratory tract, where it functions by protecting surfaces from infection. Its local expression has been associated with skin lesions like psoriasis as well as infected lung epithelia of patients with cystic fibrosis.

Specifications:

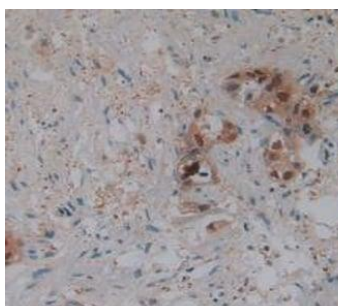
Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Immunogen: Recombinant DEFB2 protein expressed in E.coli.
 Localization: Secreted
 Formulation: Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, IF, WB
 Package:

Description	Catalog No.	Size
DEFB2/Beta-Defensin 2 Polyclonal Concentrated	RC0050	1 ml

IHC Procedure*:

Positive Control Tissue: Tonsil, kidney, stomach, colon and pancreas cancer
 Concentrated Dilution: 10-50
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
 Incubation Time and Temp: Overnight at 4°C
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human pancreas cancer stained with anti-DEFB2 using AEC

References:

1. Reconstructed Human Epidermis Predicts Barrier-Improving Effects of Lactococcus lactis Emulsion in Humans. Hausmann C, et al. Skin Pharmacol Physiol 32:72-80, 2019.
2. Human Beta Defensins and Cancer: Contradictions and Common Ground. Santosh K. Ghosh, et al. Oncol., 03 May 2019.