

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human β -Defensin 4/2 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human β -Defensin 4/2 Gly24-Pro64 Accession # O15263
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

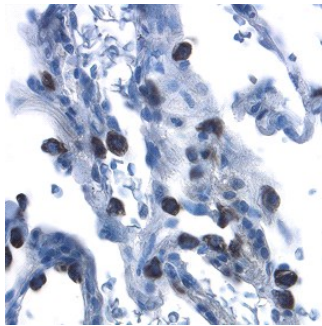
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 μ g/mL	Recombinant Human beta-Defensin 4/2
Immunohistochemistry	5-15 μ g/mL	See Below

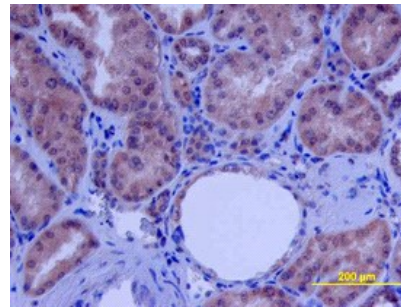
DATA

Immunohistochemistry



β -Defensin 4/2 in Human Lung. β -Defensin 4/2 was detected in immersion fixed paraffin-embedded sections of human lung using Human β -Defensin 4/2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2758) at 10 μ g/mL overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm of alveolar cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Immunohistochemistry



β -Defensin 4/2 in Human Kidney Array. β -Defensin 4/2 was detected in immersion fixed paraffin-embedded sections of human kidney array using Human β -Defensin 4/2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2758) at 10 μ g/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Human BD-2, also known as defensin beta 2 (DEFB-2), is a secreted, 41 amino acid residue anti-microbial protein belonging to the defensin family. Mature defensins are cationic proteins with three intramolecular disulfides and a characteristic triple-stranded β -sheet. Human BD-2 expression is induced by inflammatory signals in multiple tissues, including airway epithelial cells and keratinocytes. At the amino acid sequence level, human BD-2 shares 98% and 51% homology with the proteins from rhesus monkey and rat, respectively.