Resistin-Like Molecule-beta Human, Rabbit Polyclonal Antibody

Product Data Sheet

Source of Antigen: *E.coli*
Host: Rabbit

Cat. No.:
RD181047100 (0.1 mg)

Other names: RELM-beta, Resistin-like beta, RELMbeta, Cysteine-rich secreted protein FIZZ2, Colon and small intestine-specific cysteine-rich protein, Cysteine-rich secreted protein A12-alpha-like 1, Colon carcinoma-related gene protein, RETNLB, CCRG, FIZZ2, HXCP2, RETNL2, UNQ408

Research topic

Energy metabolism and body weight regulation

Preparation

The antibody was raised in rabbits by immunization with the recombinant Human RELM-beta.

Amino Acid Sequence

The immunization antigen (11 kDa) is a protein containing 102 AA of recombinant Human RELM-beta. C-Terminal His-tag 12 AA (highlighted).

MGSTQCSLDS VMDKKIKDVL NSLEYSPSPI SKKLSCASVK SQGRPSSCPA GMAVTGCACG YGCGSWDVQL ETTCHCQCSV VDWTTARCCH LT**KLRSHHHH HH**

The amino acid sequence of the recombinant Human RELM-beta is 100% homologous to the amino acid sequence of the Human RELM-beta without signal sequence.

Species Reactivity

Human
Not yet tested in other species.

Antibody Content

0.1 mg (determined by BCA method, BSA was used as a standard)

Formulation

The antibody is lyophilized in 0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2. **AZIDE FREE**.

Reconstitution

Add 0.1 ml of deionized water and let the lyophilized pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.

Storage/Stability

The lyophilized antibody remains stable and fully active until the expiry date when stored at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles and store frozen at -80°C. Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after one week at 4°C.

Expiration

See vial label.

Lot Number

See vial label.

Quality Control Test

Indirect ELISA - to determine titer of the antibody
SDS PAGE - to determine purity of the antibody

Applications

ELISA, Western blotting

Introduction to the Molecule

RELM-beta (Resistin-Like Molecule-beta) is a member of a recently identified family of secreted proteins containing a conserved cystein-rich C-terminus. The RELM family consists of resistin (also called FIZZ3), RELM-alpha (FIZZ1), RELM-beta (FIZZ2) and RELM-gamma. Only resisistin and RELM-beta were found in humans whereas all four RELM family members were identified in rodents. RELM-beta appears to be produced as a homodimer exclusively by intestinal goblet cells and can be found in high quantities in stool. Remarkably, stool of germ-free mice displaying sterile intestinal tract does not contain RELM-beta until bacterial colonization takes place after pathogen-free mice entered natural environment. Some, but not all, colon carcinoma cell lines secrete RELM-beta into the cell culture supernatant. The physiological function of RELM-beta is not known. High doses of recombinant RELM-beta showed hyperglycemic effects including lowered glucose disposal and increased hepatic glucose production in mice.

Note

This product is for research use only.

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