



# Anti-Mouse RELM beta

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>103-P50</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant mRELM-beta (murine RELM-beta). Anti-mRELM-beta specific antibody was purified by affinity chromatography employing immobilized RELM-beta matrix.

## Target Background

<b>Synonyms (Target):</b>	Retnlb; Xcp3; Fizz2; Relmb; RELMbeta; 9030012B21Rik
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RELMβ (Resistin-like molecule β/FIZZ2) is an 18 kDa disulfide-linked homodimeric protein expressed in the epithelium of the colon and small bowel. The biological functions of RELMβ, and its molecular targets, are not fully known but, it has been suggested that it plays a regulatory role during inflammation and may also act to establish links among adipose tissue, the intestine and the liver (Rajala, M. et al. J. Clin. Invest. Vol. 111, 225-230 (2003)). Interestingly the molecular structure of RELMβ is highly homologous to that of the adipose-derived cytokine Resistin and RELMβ. These proteins share a highly conserved C-terminal domain, characterized by 10 cysteine residues with a unique spacing motif of C-X11-C-X8-C-X-C-X3-C-X10-C-X-C-X-C-X9-C-C. Recombinant Murine RELMβ is an 18.0 kDa, consisting of two 83 amino acid residue chains.

### Database References Target

<b>Protein RefSeq:</b>	NP_076370
<b>Uniprot ID:</b>	Q99P86
<b>mRNA RefSeq:</b>	NM_023881

## Product Specifications

<b>Species reactivity</b>	Mouse
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	Recombinant Mouse RELM-beta
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

### Applications

**Western Blot:** To detect mRELM-beta by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant mRELM-beta is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

**ELISA:** To detect mRELM-beta by direct ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant mRELM-beta.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**