

PRODUCT DATA SHEET

RAT ANTI-HUMAN INTERLEUKIN-17 RECEPTOR B (IL17RB)

MONOCLONAL ANTIBODY

PRODUCT INFORMATION

Catalog Number:	GM-0105	Clone:	BFI-7C7
Description:	purified monoclonal rat antibody	Specificity:	anti-human IL17RB
Isotype:	IgG2b/kappa	Purification:	Protein G
Storage:	short term: 2°C – 8°C; long term: –20°C (avoid repeated freezing and thawing)	Buffer:	phosphate buffered saline, pH 7.2
Immunogen:	genetic immunization with cDNA encoding the extracellular domain (ecd) of human IL17RB	Selection:	based on recognition of the ECD region of IL17RB on viable, transfected mammalian cells

WORKING DILUTIONS

Flow cytometry:	1.2 µg/10 ⁶ cells		
ELISA:	1:200 – 1:400	CELISA:	1:200 – 1:400
For each application a titration should be performed to determine the optimal concentration.			

SPECIFICITY TESTING BY FLOW CYTOMETRY

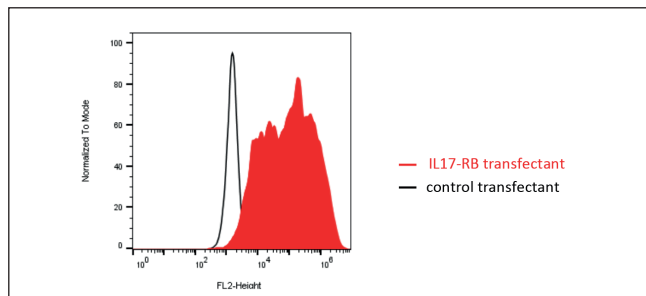


Fig.1: GM-0105. BOSC23 cells were transiently transfected with an expression vector encoding either the ecd of human IL17RB (filled red curve), or an irrelevant protein (control transfectant, black curve). Binding of BFI-7C7 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with human IL17RB.

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CGE ANALYSIS OF GM-0105

The antibody was purified by protein G affinity chromatography from cell culture supernatants and verified by CGE (Fig. 2).

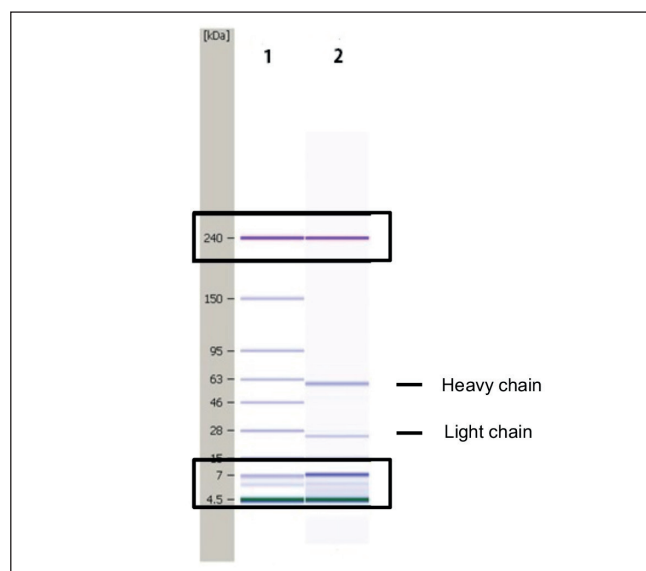


Fig. 2: CGE analysis of purified BFI-7C7 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified BFI-7C7 antibody. Proteins were separated by CGE (capillary gel electrophoresis, Agilent 2100 Bioanalyzer). Internal control bands (240 kDa / 7 kDa / 4,5 kDa).

BACKGROUND

The IL17RB protein is a cytokine receptor. This receptor specifically binds to IL17B and IL17E (IL25), but does not bind to IL17A or IL17C (1, 2). This receptor has been shown to mediate the activation of NF-kappaB and the production of IL8 induced by IL17E (3, 4). The expression of the rat counterpart of this gene was found to be significantly up-regulated during intestinal inflammation, which suggested the immunoregulatory activity of this receptor.

This antibody is recommended for applications under non-denaturing conditions.

REFERENCES

1. **Rickel EA et al. (2008).** Identification of functional roles for both IL-17RB and IL-17Ra in mediating IL-25-induced activities. *J. Immunol.* 181(6):4299-4310.
2. **Reynolds JM et al. (2015).** Interleukin-17B antagonizes Interleukin-25-mediated mucosal inflammation. *Immunity* 42(4):692-703.
3. **Maizawa Y et al. (2006).** Involvement of TNF receptor-associated factor 6 in IL-25 receptor signalling. *J. Immunol.* 176(2):1013-1018.
4. **Hata K et al. (2002).** IL-17 stimulates inflammatory responses via NF-kappaB and MAP kinase pathways in human colonic myofibroblasts. *Am. J. Physiol. Gastrointest. Liver Physiol.* 282(6):G1035-1044.

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