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Datasheet for ABIN108718
anti-IL13 Receptor alpha 1 antibody (Extracellular Domain)

6 Images

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Overview

Quantity:	100 μg
Target:	IL13 Receptor alpha 1 (IL13RA1)
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IL13 Receptor alpha 1 antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Cell-ELISA (cELISA), Antagonist (Anta)

Product Details

Immunogen:	genetic immunisation with cDNA encoding human IL13-Ralpha1 (extracellular domain)
Clone:	GM-1E7
Isotype:	IgG1
Specificity:	GM1E7 recognises IL-13Ralpha1 transiently expressed on the cell surface of transfected BOSC cells as well as the native protein on monocytes (Myrtek et al., 2004).
Purification:	Protein G

Target Details

Target:	IL13 Receptor alpha 1 (IL13RA1)
Alternative Name:	IL13Ra1 (IL13RA1 Products)

Target Details

Background:	Interleukin 13 (IL-13) is a T cell derived cytokine involved in the regulation of inflammatory and im-mune responses. IL-13Rα1 together with IL-4Rα forms a functional receptor for both IL-4 and IL-13, which is why these two cytokines share many of their biological activities. The receptor is found on human B cells, monocytes and endothelial cells. However, no functional receptor is expressed on T cells, which explains why IL-13, in contrast to IL-4, fails to induce TH2-cell differentiation.
UniProt:	P78552
Pathways:	JAK-STAT Signaling, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	Flow cytometry: 1.2 μg/10^6 cells
	CELISA: 1:200 - 1:400
	For each application a titration should be performed to determine the optimal concentration.
Restrictions:	For Research Use only

Handling

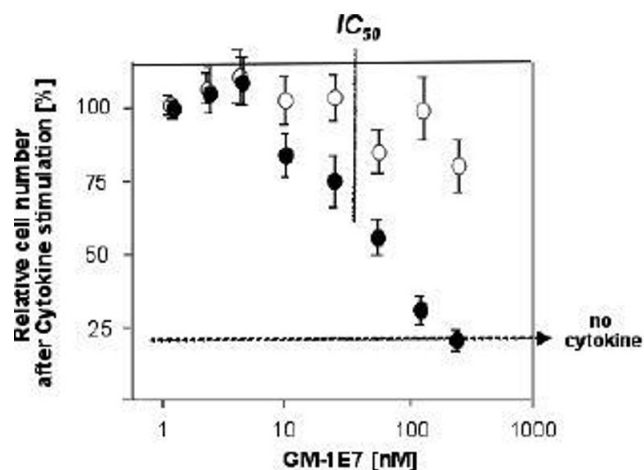|	
Buffer:	PBS, pH 7.2
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C
Storage Comment:	short term: 2 °C - 8 °C, long term: -20 °C

Images

Image 1. Specific inhibition of IL-13-dependentproliferation of TF-1 cells by GM-1E7. Samplesof TF-1 cells were incubated for 72 h with 10 nMhuman IL-13 (closed circles) or 10 nM human IL-4(open circles) plus the indicated concentrations ofpurified GM-1E7. Refere
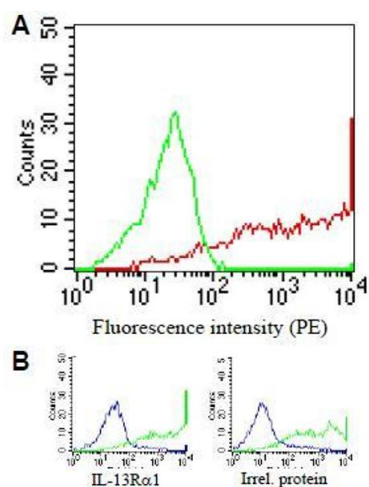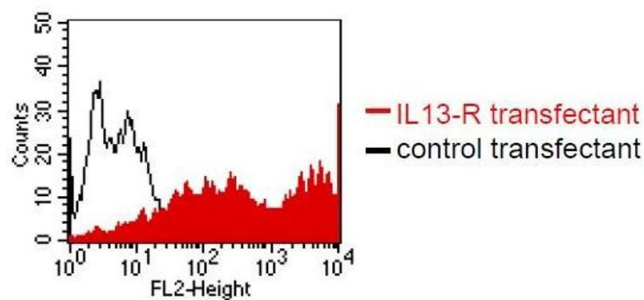

Image 2. Specificity testing of GM1E7. BOSC cells were transiently transfected with an expression vector encoding either the extracellular domain of IL-13Ralpha1 or an irrelevant protein. Expression of the constructs was tested with an anti-tag monoclonal antibody

Flow Cytometry

Image 3. FACS analysis of BOSC23 cells using E6. BOSC23 cells were transiently transfected with an expression vector encoding either IL13-R (red curve) or an irrelevant protein (control transfectant: black curve). Binding of E7 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with IL13-R transfected cells.

Please check the product details page for more images. Overall 6 images are available for ABIN108718.