

Mouse anti-Human IL13R Monoclonal Antibody | anti-IL13RA1 antibody

anti-human IL13 receptor (IL13-R) monoclonal antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71460	Mouse	Human	ELISA, ELISA, Flow Cytometry, Functional Assay

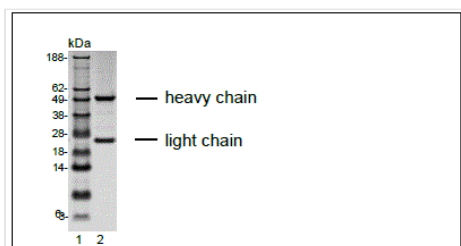
PRODUCT SYNONYMS

IL13R; Monoclonal Antibody; anti-human IL13 receptor (IL13-R) monoclonal antibody; anti-IL13RA1 antibody

PRODUCT SPECIFICATIONS

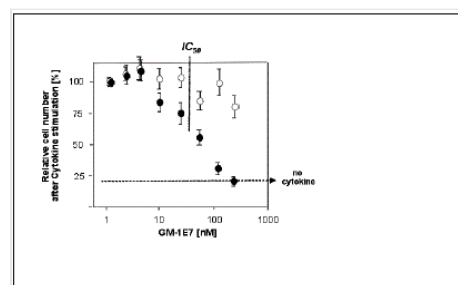
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	GM-1E7
Specificity	anti-human IL13 receptor (IL13-R)
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	427
Applicable Applications for anti-IL13RA1 antibody	ELISA, ELISA, FCM/FACS (Flow Cytometry), AntagonisticAntibody
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunisation with cDNA encoding human IL13-Ra1 (extracellular domain)
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Immunogen	cDNA
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)

IMAGES



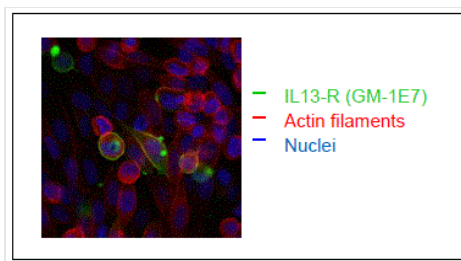
Application Data

SDS-PAGE analysis of GM-1E7 The antibody was purified by protein G affinity chromatography from cell culture supernatants and verified by SDS-Page (Fig.4). Fig.4: SDS-PAGE analysis of purified GM-1E7 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 ug of purified GM-1E7 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.



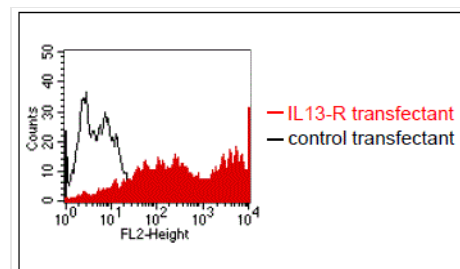
Application Data

Fig 3: Dose-dependent inhibition of cellular proliferation. Samples of TF-1 cells were incubated for 72 h with 10 nM human IL-13 (closed circles) or 10 nM human IL-4 (open circles) plus the indicated concentrations of purified GM-1E7. Antibody GM1E7 blocks IL-13-dependent cell proliferation completely, but only marginally influences IL-4- activity on TF-1 cells.



Application Data

Fig.2: Spectral Confocal Microscopy of CHO cells using GM-1E7 Cat.# AAA71460. CHO cells were transiently transfected with an expression vector encoding IL13-R. Binding of GM-1E7 was visualized with a FITC-conjugated secondary antibody (green). Actin filaments are labeled with Alexa Fluor-555 Phalloidin (red). Cell nuclei are stained with DAPI (blue).



Application Data

Fig.1: FACS analysis of BOSC23 cells using GM-1E6 Cat.# AAA71460. 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 GM-1E7 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with IL13-R transfected cells.

ADDITIONAL INFORMATION

Related Product Information for anti-IL13RA1 antibody	Description: Purified monoclonal mouse antibody
	Background: Interleukin 13 (IL-13) is a T cell derived cytokine involved in the regulation of inflammatory and immune responses. IL-13Ra1 together with IL-4Ra1 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.
References	Myrtek et al. (2004): Expression of interleukin-13 receptor alpha 1-subunit on peripheral blood eosinophils is regulated by cytokines. Immunology 112(4): 597-604. Krause et al. (2006): Blockade of interleukin-13-mediated cell activation by a novel inhibitory antibody to human IL-13 receptor α 1. Mol Immunol 33: 1799-1807

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504647
NCBI GeneID	3597
NCBI Accession #	NP_001551.1
NCBI GenBank Nucleotide #	NM_001560.2
UniProt Accession #	P78552; O95646; Q5JSL4; Q99656; Q9UDY5
NCBI Official Full Name	interleukin-13 receptor subunit alpha-1
NCBI Official Synonym Full Names	interleukin 13 receptor, alpha 1
NCBI Official Symbol	IL13RA1
NCBI Official Synonym Symbols	NR4; CD213A1; IL-13Ra
NCBI Protein Information	interleukin-13 receptor subunit alpha-1; CT19; IL-13RA1; IL-13R-alpha-1; CD213a1 antigen; IL-13R subunit alpha-1; cancer/testis antigen 19; IL13 receptor alpha-1 chain; IL-13 receptor subunit alpha-1; bB128O4.2.1 (interleukin 13 receptor, alpha 1)
UniProt Gene Name	IL13RA1
UniProt Synonym Gene Names	IL13R; IL13RA; IL-13 receptor subunit alpha-1; IL-13R subunit alpha-1; IL-13R-alpha-1; IL-13RA1; CT19
UniProt Entry Name	I13R1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.