



20150204ML

Anti-Human IL-13 receptor alpha (#10A51)

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

Cat.-no.:	101-M478
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant protein of IL-13R α1 extracellular domain.

Target Background

Synonyms (Target):	IL13RA1; NR4; CD213A1; IL-13Ra
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Two members of the type 5 subfamily of type I cytokine receptors can serve as receptors for IL-13. IL-13 can bind to IL-13 R alpha 1 (CD213a1; previously designated IL-13 R alpha or NR4) with low affinity, then recruits the IL-4 R alpha chain to form a high affinity receptor, causing downstream STAT6 activation. Alternately, IL-13 can bind IL-13 R alpha 2 (CD213a2) with high affinity; this interaction does not cause activation of STAT6, but does induce TGF-beta production. IL-13 R alpha 1 and IL-13 R alpha 2 each have three extracellular fibronectin type III domains, two cytokine receptor homology modules and a WSXWS motif typical of the class I cytokine receptor family, but IL-13 R alpha 2 has a much shorter cytoplasmic tail. IL-13 R subunits can be expressed on monocytes, macrophages, fibroblasts, human B cells, basophils, eosinophils, endothelial cells, and smooth muscle cells.

Database References Target

Protein RefSeq:	NP_001551.1
Uniprot ID:	P78552
mRNA RefSeq:	NM_001560.2

Product Specifications

Host	Mouse
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#10A51)
Isotype	IgG2
Purification	Protein G chromatography
Antigen	recombinant human IL-13R alpha 1 EC domain
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect human IL-13R alpha 1.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB

Recommended usage:

Western Blot: 1:500 - 1:1000

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