IL13RA2 / IL13R Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	IL13RA2 / IL13R, Recombinant Protein
Full Product Name	Recombinant Rat IL13RA2 / IL13R Protein (His tag)
Product Gene Name	IL13RA2 / IL13R recombinant protein
Product Synonym Names	IL13RA2
Host	Human Cells
Form/Format	Lyophilized from sterile PBS, pH 7.4
Purity/Purification	> 85 % as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C
Molecular Weight	44,622 Da
3D Structure	ModBase 3D Structure for Q8VHK6
Predicted N Terminal	Leu 24
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for IL13RA2 / IL13R recombinant protein	The recombinant rat IL13RA2 comprises 324 amino acids and predicts a molecular mass of 37.9 kDa. The apparent molecular mass of the recombinant protein is approximately 44 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Related Product Information for IL13RA2 / IL13R recombinant protein	Background: Interleukin-13 receptor subunit alpha-2 (IL13RA2/IL-13RA2) is also known as also known as cluster of differentiation 213A2 (CD213A2), IL-13 receptor subunit alpha-2, IL-13R subunit alpha-2, and IL-13RA2. The IL13RA2 is often overexpressed in brain tumors, making Il13ra2 one of the vaccine targets for immunotherapy of glioma. IL13RA2/IL-13RA2 is a cancer-associated receptor that is present in greater than 80% of High Grade Astrocytomas (HGA) and has recently been recognized as a cytokine that predisposes breast cancer cells to metastasize. Expression of IL13Ralpha2 was rapidly lost from the surface of transduced cells grown in culture. The loss appeared to be related to ligands present in fetal bovine serum in the medium. None of the malignant glioma cell lines cultivated in vitro and tested to date exhibited the IL13Ralpha2 receptor. A recombinant virus (R5111) enters cells via its interaction with the IL13Ralpha2 receptor in a manner that cannot be differentiated from the interaction of wild-type virus with its receptors. Description: A DNA sequence encoding the rat IL13RA2 (Q8VHK6) (Met1-Lys336) was expressed, fused with a polyhistidine tag at the C-terminus.
Other Notes	Small volumes of IL13RA2 / IL13R recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL13RA2 / IL13R purchase	MBS2547426 is a recombinant protein targeting IL13RA2 / IL13R. Also known as Recombinant Rat IL13RA2 / IL13R Protein (His tag). Host: Human Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL13RA2 / IL13R. It may not necessarily be applicable to this product.

NCBI GI #	81916005
NCBI GeneID	171060

NCBI Accession #	Q8VHK6.1
UniProt Primary Accession #	Q8VHK6
UniProt Related Accession #	Q8VHK6
NCBI Official Full Name	Interleukin-13 receptor subunit alpha-2
NCBI Official Synonym Full Names	interleukin 13 receptor subunit alpha 2
NCBI Official Symbol	Il13ra2
NCBI Official Synonym Symbols	IL-13R-alpha-2
UniProt Protein Name	Interleukin-13 receptor subunit alpha-2
UniProt Synonym Protein Names	CD_antigen: CD213a2
UniProt Gene Name	Il13ra2
UniProt Synonym Gene Names	IL-13 receptor subunit alpha-2; IL-13R subunit alpha-2; IL-13R-alpha-2; IL-13RA2
NCBI Protein Information	interleukin-13 receptor subunit alpha-2
NCBI Summary for IL13RA2 / IL13R	used as a target for immunotherapeutic approaches for treating brain tumors [RGD, Feb 2006]
UniProt Comments for IL13RA2 / IL13R	Binds as a monomer with high affinity to interleukin-13 (IL13).
Research Articles on IL13RA2 / IL13R	**1.** gene sequence and tissue distribution of IL-13Ralpha2 in the rat
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