



IL-13R α 1 (phospho Tyr405) Polyclonal Antibody

Catalog No	YP-Ab-13026
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IF;ELISA
Gene Name	IL13RA1
Immunogen	The antiserum was produced against synthesized peptide derived from human IL-13R alpha1 around the phosphorylation site of Tyr405. AA range:371-420
Specificity	Phospho-IL-13R α 1 (Y405) Polyclonal Antibody detects endogenous levels of IL-13R α 1 protein only when phosphorylated at Y405.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	IL-13R α 1;IL13RA1;Interleukin-13 receptor subunit alpha-1;IL13R;IL13RA;IL-13 receptor subunit alpha-1;IL-13R subunit alpha-1;IL-13R-alpha-1;IL-13RA1;Cancer/testis antigen 19;CT19;CD antigen CD213a1
Observed Band	49kD
Calculated Molecular Weight	49kD
Cell Pathway	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Ubiquitous. Highest levels in heart, liver, skeletal muscle and ovary; lowest levels in brain, lung and kidney. Also found in B-cells, T-cells and endothelial cells.
Function	domain:The box 1 motif is required for JAK interaction and/or activation., domain:The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding., function:Binds IL13 with a low affinity. Together with IL4R-alpha can form a functional receptor for IL13. Also serves as an alternate accessory protein to the common cytokine receptor gamma chain for IL4 signaling, but cannot replace the function of gamma C in allowing enhanced IL2 binding activity.,

similarity: Belongs to the type I cytokine receptor family. Type 5 subfamily.,
subunit: Interleukin 13 receptor is a complex of IL4R, IL13RA1, and possibly
other components. Interacts with TRAF3IP1., tissue specificity: Ubiquitous.
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Background

The protein encoded by this gene is a subunit of the interleukin 13 receptor. This subunit forms a receptor complex with IL4 receptor alpha, a subunit shared by IL13 and IL4 receptors. This subunit serves as a primary IL13-binding subunit of the IL13 receptor, and may also be a component of IL4 receptors. This protein has been shown to bind tyrosine kinase TYK2, and thus may mediate the signaling processes that lead to the activation of JAK1, STAT3 and STAT6 induced by IL13 and IL4. [provided by RefSeq, Jul 2008],

matters needing attention

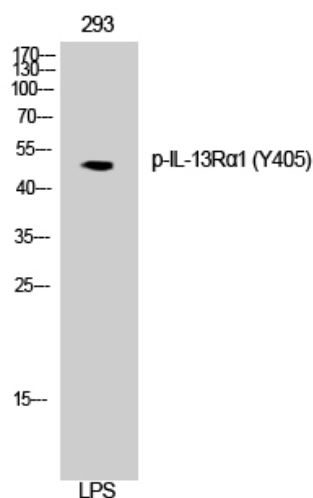
Avoid repeated freezing and thawing!

Usage suggestions

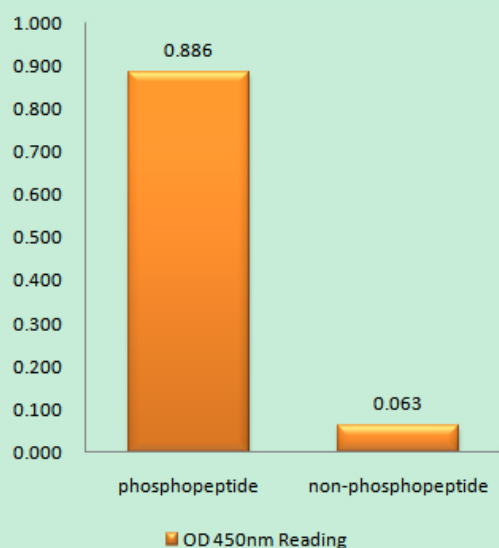
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



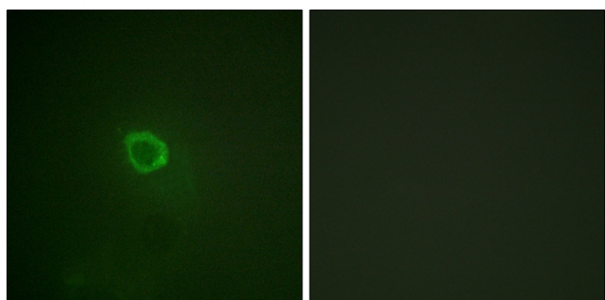
Products Images



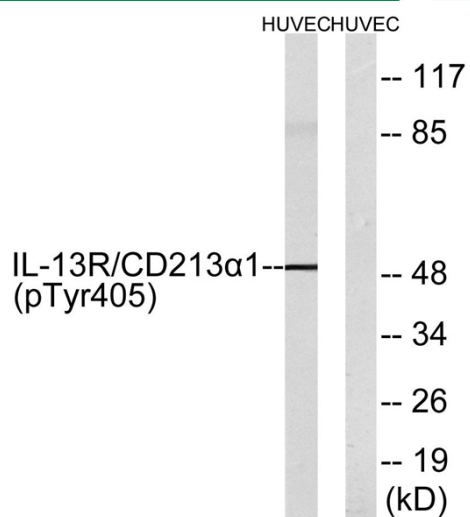
Western Blot analysis of 3T3 cells using
Phospho-IL-13Rα1 (Y405) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay
(Phospho-ELISA) for Immunogen Phosphopeptide
(Phospho-left) and Non-Phosphopeptide
(Phospho-right), using IL-13R alpha1
(Phospho-Tyr405) Antibody



Immunofluorescence analysis of HepG2 cells, using
IL-13R alpha1 (Phospho-Tyr405) Antibody. The picture
on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells treated with serum 20% 15', using IL-13R alpha1 (Phospho-Tyr405) Antibody. The lane on the right is blocked with the phospho peptide.