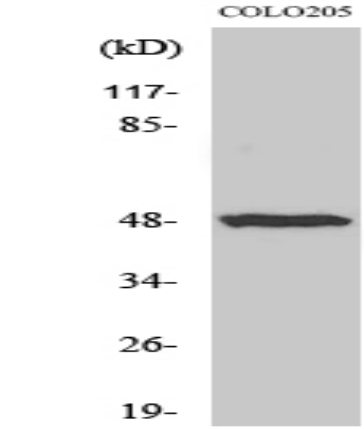
Best Tools for immunology Research

IL-13Rα1 Polyclonal Antibody

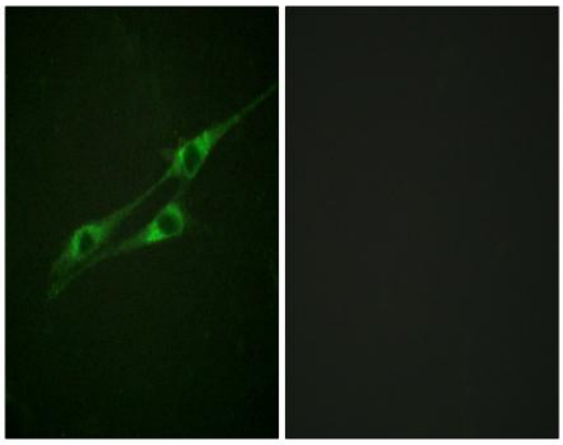
Catalog No :	YT2313
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	IL-13Rα1
Fields :	>>Cytokine-cytokine receptor interaction;>>JAK-STAT signaling pathway;>>Pathways in cancer
Gene Name :	IL13RA1
Protein Name :	Interleukin-13 receptor subunit alpha-1
Human Gene Id :	3597
Human Swiss Prot No :	P78552
Mouse Gene Id :	16164
Mouse Swiss Prot No :	O09030
Immunogen :	The antiserum was produced against synthesized peptide derived from human IL-13R/CD213 alpha1. AA range:371-420
Specificity :	IL-13Rα1 Polyclonal Antibody detects endogenous levels of IL-13Rα1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	49kD
Cell Pathway :	Cytokine-cytokine receptor interaction;Jak_STAT;
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],
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. Highest levels in heart, liver, skeletal muscle and ovary; lowest levels in brain, lung and kidney. Also found in B-cells, T-cells and endothe
Subcellular Location :	Membrane; Single-pass type I membrane protein.
Expression :	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.

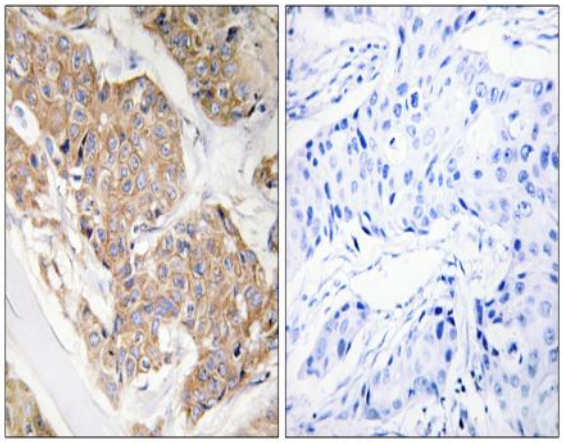
Products Images



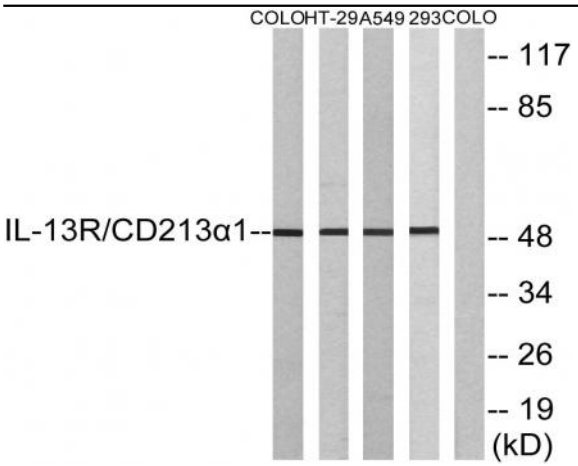
Western Blot analysis of various cells using IL-13Rα1 Polyclonal Antibody diluted at 1:1000



Immunofluorescence analysis of NIH/3T3 cells, using IL-13R/CD213 alpha1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using IL-13R/CD213 alpha1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO, HT-29, A549, and 293 cells, using IL-13R/CD213 alpha1 Antibody. The lane on the right is blocked with the synthesized peptide.