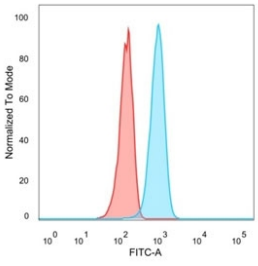
IL-7 Antibody [clone IL7/4013] (V9629)

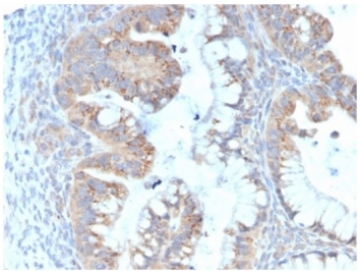
Catalog No.	Formulation	Size
V9629-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9629-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9629SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

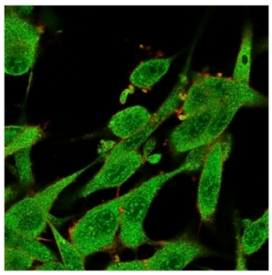
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	IL7/4013
Purity	Protein A/G affinity
UniProt	P13232
Localization	Secreted
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This IL-7 antibody is available for research use only.



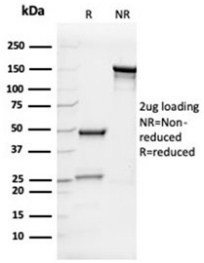
FACS staining of PFA-fixed human U-87 MG cells with IL-7 antibody (blue, clone IL7/4013), and isotype control (red).



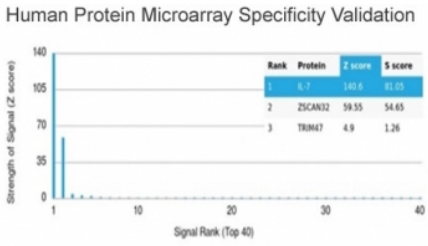
IHC staining of FFPE human colon carcinoma tissue with IL-7 antibody (clone IL7/4013). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of PFA-fixed human U-87 MG cells using IL-7 antibody (green, clone IL7/4013) and phalloidin (red).



SDS-PAGE analysis of purified, BSA-free IL-7 antibody (clone IL7/4013) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using IL-7 antibody (clone IL7/4013). These results demonstrate the foremost specificity of the IL7/4013 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Interleukin-7 (IL-7) was originally described as a factor capable of inducing in vitro proliferation of pre-B cells from marrow cultures. The IL-7 gene encodes a protein 177 amino acids in length. IL-7 exerts its biological function through the IL-7 receptor which is expressed on pre-B cells, thymocytes and bone marrow-derived macrophages. The IL-7 receptor is composed of an IL-7 receptor specific chain and the IL-2 receptor chain common to the IL-2, IL-4, IL-7, IL-9 and IL-15 receptors. IL-7 stimulation leads to the activation of Janus tyrosine kinase family members JAK1 and JAK3. Other studies have shown that in T cells, the IL-7 receptor-specific chain associates with the Src kinases family Lck and Fyn. IL-7 induces phosphorylation of Insulin receptor substrate-1 (IRS-1) and Insulin receptor substrate-2 (IRS-2), originally called 4PS.

Application Notes

Optimal dilution of the IL-7 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 27-177 was used as the immunogen for the IL-7 antibody.

Storage

Aliquot the IL-7 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.