

## Anti-IL-7 Antibody [IL7/4012] (A277673)

### Specifications:

Name:	Anti-IL-7 Antibody [IL7/4012]
Description:	Mouse monoclonal [IL7/4012] antibody to IL-7.
Specificity:	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 $\beta$ 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.
Applications:	Flow Cytometry, IF, IHC-P
Recommended Dilutions:	Flow Cytometry: 1-2 $\mu$ g/million cells, IF: 1-2 $\mu$ g/ml, IHC-P: 1-2 $\mu$ g/ml
Reactivity:	Human
Immunogen:	Recombinant fragment, around amino acids 27-177, corresponding to mature human IL-7. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	IL7/4012
Isotype:	IgG1
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 $\mu$ g/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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### Specifications continued:

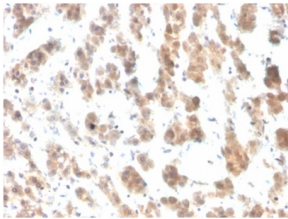
#### General Notes:

This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-IL-7 Antibody [IL7/4012] - BSA and Azide free (A278261).

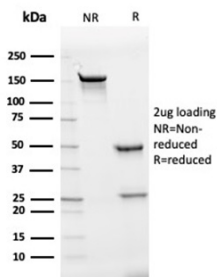
#### Disclaimer:

This product is for research use only. It is not intended for diagnostic or therapeutic use.

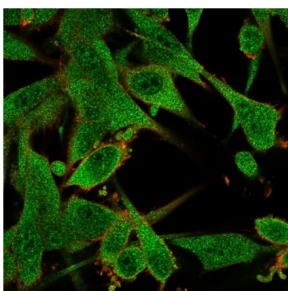
### Images:



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human adrenal gland tissue using Anti-IL-7 Antibody [IL7/4012].



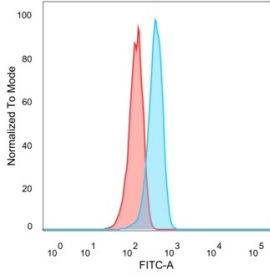
SDS-PAGE analysis of Anti-IL-7 Antibody [IL7/4012] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.



Immunofluorescent analysis of PFA-fixed U-87 cells stained with Anti-IL-7 Antibody [IL7/4012] followed by Goat Anti-Mouse IgG (CF® 488) (Green). CF® 640A Phalloidin (Red).

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Images continued:



Flow cytometric analysis of PFA-fixed U87 cells using Anti-IL-7 Antibody [IL7/4012] followed by Goat Anti-Mouse IgG (CF® 488) (Blue). Isotype Control (Red).