

Rabbit Anti-human Interleukin 2 (IL-2)

Monoclonal Antibody, clone 2F9

Catalog Number: R17003M2F9

General Information

Immunogen	Full length recombinant human IL-2 protein
IgG type	Rabbit IgG
Clonality	Monoclonal
Applications	ELISA, WB, FC (1:200 to 1:2000)
Specificity	Human IL-2
Formulation	0.22 μ M filtered solution of PBS, pH 7.4
Purity	> 95% determined by SDS-PAGE
Storage	\leq -20 $^{\circ}$ C for 1 year or 4 $^{\circ}$ C for 1 months

Abbreviations:

ELISA: Enzyme-linked immunosorbent assay; ITA: immunoturbidimetric assay; IP: immunoprecipitation; IHC: immuno-histochemistry; IF: immunofluorescence. WB: western blot; FC: flow cytometry

Storage

This antibody is shipped at 4 $^{\circ}$ C. This product is stable for 12 months from date of receipt when stored at -20 $^{\circ}$ C to -70 $^{\circ}$ C. Avoid freeze/thaw cycles.

Hazard/Biohazard

This antibody contains 0.09% sodium azide as preservative. Please handle and dispose the product properly. No known biohazard is associated with this product.

Background

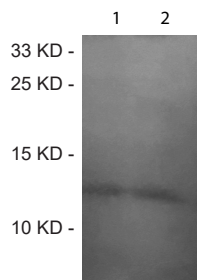
Interleukin 2 (IL-2) is an essential cytokine for the immune system to maintain its key functions in immunity and immune tolerance in response to antigenic and mitogenic stimuli. IL-2 precursor is a 153 amino acid protein which matures into a 133 amino acid. When binds to IL-2 receptors, IL-2 could regulate T cell function by promoting differentiation of immature T cells to regulatory T cells, effector T cells, memory T cells. IL-2 can also regulate the proliferation and differentiation of B cells. IL-2 has been associated with ulcerative colitis-like disease, Capillary Leak Syndrome, and renal carcinoma cancer.

Preparation

Monoclonal antibody is produced by immunizing rabbit with full length human IL-2 and purified using protein A resin.

Application

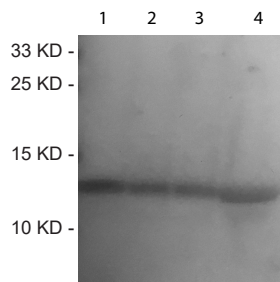
Western blot



Jurkat cell lysate: lane 1: 25 ug;
lane 2: 50 ug

2F9 dilution: 1ug/ml

Blocking and antibody dilution buffer is 5% skim milk (w/v), 1x TBS, 0.05% Tween-20.

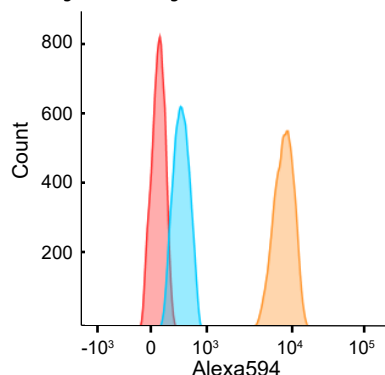


recombinant IL-2: lane 1: 0.25 ng, lane 2: 0.5 ng, lane 3: 1 ng, lane 4: 10 ng

2F9 dilution: 1ug/ml

Blocking and antibody dilution buffer is 5% skim milk (w/v), 1x TBS, 0.05% Tween-20.

Flow cytometry



Alexa594-goat anti-rabbit IgG antibody + rabbit anti-human IL2 mAb (2F9)
Alexa594-goat anti-rabbit IgG antibody + rabbit normal IgG
non-stained

Flow cytometry was performed with Jurkat cells.

Research Use or Manufacturing Only