bs-0577R **[Primary Antibody]**

IL2RA/CD25 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 16184 **SWISS:** P01590

Target: IL2RA/CD25

Immunogen: KLH conjugated synthetic peptide derived from mouse CD25: 201-268/268.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (IL2RA) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity receptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determined to result from extracellular proteolysis. Alternately-spliced IL2RA mRNAs have been isolated, but the significance of each is presently unknown. Mutations in this gene are associated with interleukin 2 receptor alpha deficiency. Patients with severe Coronavirus Disease 2019 (COVID-19), the disease caused by the novel severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), have significantly elevated levels of IL2R in their plasma. Similarly, serum IL-2R levels are found to be elevated in patients with different types of carcinomas. Certain IL2RA and IL2RB gene polymorphisms have been associated with lung cancer risk. [provided by RefSeq, Jul 2020]

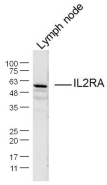
Applications: **WB** (1:500-2000)
Flow-Cyt (0.2ug /test)

Reactivity: Human, Mouse (predicted: Rat)

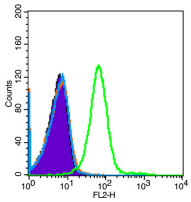
Predicted MW.: 28 kDa

Subcellular Location: Cell membrane

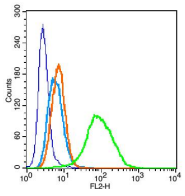
VALIDATION IMAGES



Sample: Lymph node (Mouse) Lysate at 40 ug
Primary: Anti-IL2RA (bs-0577R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution Predicted band size: 28 kD
Observed band size: 55 kD



Blank control (Black line): Jurkat (Black).
Primary Antibody (green line): Rabbit Anti-IL2RA/CD25 antibody (bs-3152R) Dilution: 3µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then were incubated in 5%BSA to block non-specific protein-protein interactions for 15 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control: U937 (blue). Primary Antibody:Rabbit Anti- CD25 antibody(bs-0577R), Dilution: 0.2µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA. Protocol The cells were fixed with 2% paraformaldehyde (10 min) . Primary antibody (bs-0577R, 0.2µg /1x10^6 cells) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=7.3]** Wong Victoria A.. et al. IL-2Rα KO mice exhibit maternal microchimerism and reveal nuclear localization of IL-2Rα in lymphoid and non-lymphoid cells. FRONT IMMUNOL. 2024 May;15: WB,Other ;Mouse. 38812502
- **[IF=6.073]** Wen Long. et al. Gut Microbiota Protected Against pseudomonas aeruginosa Pneumonia via Restoring Treg/Th17 Balance and Metabolism. FRONT CELL INFECT MI. 2022 Jun;0:751 IF ;Mouse. 35782123
- **[IF=4.718]** Arumugam P et al. Expression of a Functional IL-2 Receptor in Vascular Smooth Muscle Cells. The Journal of Immunology,2018 ji1701151. WB ;Human. doi:10.4049/jimmunol.1701151
- **[IF=4.372]** Zhang et al. Sonodynamic therapy-assisted immunotherapy: A novel modality for cancer treatment. (2018) Cancer.Sci. 109:1330-1345 IHC ;mouse. 29575297
- **[IF=1.396]** Xiong Y et al. Functions of T-cell subsets and their related cytokines in the pathological processes of autoimmune encephalomyelitic mice.(2018) Int J Clin Exp Pathol;11(10):4817-4826. FCM,IHC ;Mouse. ISSN:1936-2625/IJCEP0080924