Product Datasheet

Anti-IL-2 Receptor alpha/Il2ra Antibody (orb763177)

Description	Anti-IL-2 Receptor alpha/Il2ra Antibody. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Mouse, Rat.
Species/Host	Rabbit
Reactivity	Mouse, Rat
Conjugation	Unconjugated
Tested Applications	FC, IHC, WB
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of mouse IL-2 Receptor alpha/Il2ra, which shares 64.3% and 86.7% amino acid (aa) sequence identity with human and rat IL-2 Receptor alpha/Il2ra, respectively.
Form/Appearance	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Western blot, 0.25-0.5 µg/ml, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x106 cells, Mouse. Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml
Isotype	Rabbit IgG
Clonality	Polyclonal
MW	50 kDa

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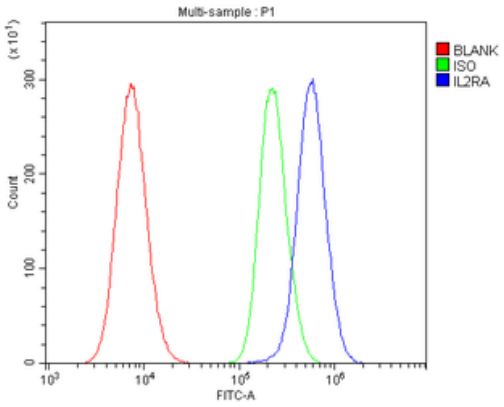
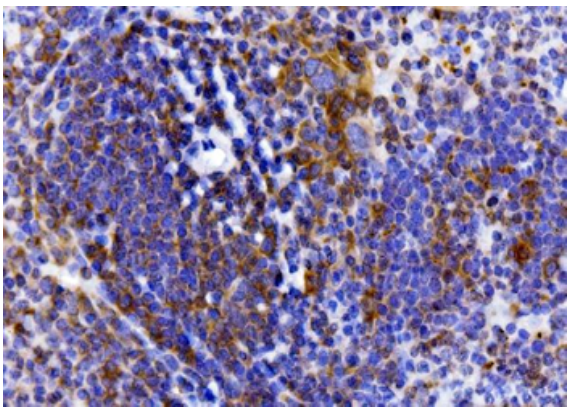
Uniprot ID **P01590**

Expiration Date 12 months from date of receipt.



Flow Cytometry analysis of HEPA1-6 cells using anti-IL-2 Receptor alpha/Il2ra antibody. Overlay histogram showing HEPA1-6 cells (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-IL-2 Receptor alpha/Il2ra Antibody (1 µg/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (5-10 µg/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 µg/1x10^6) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IHC analysis of IL-2 Receptor alpha/Il2ra using anti-IL-2 Receptor alpha/Il2ra antibody. IL-2 Receptor alpha/Il2ra was detected in a paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml rabbit anti-IL-2 Receptor alpha/Il2ra Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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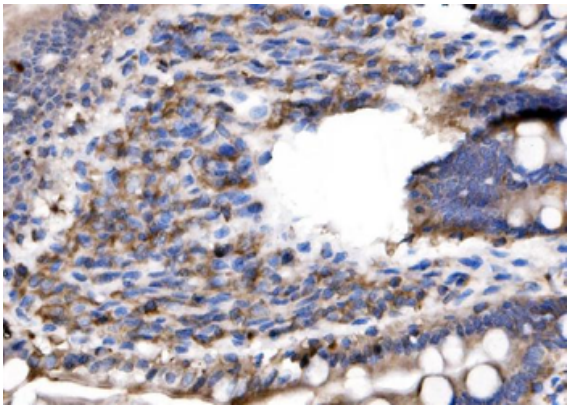
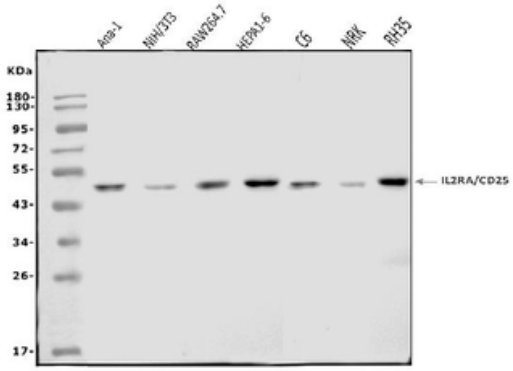


IHC analysis of IL-2 Receptor alpha/Il2ra using anti-IL-2 Receptor alpha/Il2ra antibody. IL-2 Receptor alpha/Il2ra was detected in a paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml rabbit anti-IL-2 Receptor alpha/Il2ra Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



Western blot analysis of IL-2 Receptor alpha/Il2ra using anti-IL-2 Receptor alpha/Il2ra antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: mouse ANA-1 whole cell lysates, Lane 2: mouse NIH/3T3 whole cell lysates, Lane 3: mouse RAW264.7 whole cell lysates, Lane 4: mouse HEPA1-6 whole cell lysates, Lane 5: rat C6 whole cell lysates, Lane 6: rat NRK whole cell lysates, Lane 7: rat RH35 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IL-2 Receptor alpha/Il2ra antigen affinity purified polyclonal antibody at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for IL-2 Receptor alpha/Il2ra at approximately 50 kDa. The expected band size for IL-2 Receptor alpha/Il2ra is at 50 kDa.

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