**Product Datasheet**

**Anti-IL-2 Receptor alpha antibody [IL2R.1] ab9496**

- **Overview**
  - **Product Name**: Anti-IL-2 Receptor alpha antibody [IL2R.1]
  - **Description**: Mouse monoclonal [IL2R.1] to IL-2 Receptor alpha
  - **Host Species**: Mouse
  - **Specificity**: This antibody is specific to a 55 kDa protein known as interleukin 2-receptor (IL-2R alpha). IL-2R alpha is over expressed on the surface of activated T cell, HTLV-1 or HTLV-2 positive T cell lines and moderately expressed on activated B cells, NK-cells and macrophages.
  - **Tested Applications**: Suitable for: Flow Cyt, IHC-Fr, IHC-P
  - **Species Reactivity**: Reacts with: Human
  - **Immunogen**: BALB/C mice were injected with recombinant human interleukin-2 receptor.
  - **Positive Control**: Tonsil.

- **Properties**
  - **Form**: Liquid
  - **Storage Instructions**: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
  - **Purity**: Tissue culture supernatant
  - **Clonality**: Monoclonal
  - **Clone Number**: IL2R.1
  - **Myeloma**: unknown
  - **Isotype**: IgG1
  - **Light Chain Type**: kappa

- **Applications**
  - Our **Abpromise guarantee** covers the use of ab9496 in the following tested applications.
  - The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
### Function
Receptor for interleukin-2.

### Involvement in disease
Genetic variations in IL2RA are associated with susceptibility to diabetes mellitus insulin-dependent type 10 (IDDM10) [MIM:601942]. A multifactorial disorder of glucose homeostasis that is characterized by susceptibility to ketoacidosis in the absence of insulin therapy. Clinical features are polydipsia, polyphagia and polyuria which result from hyperglycemia-induced osmotic diuresis and secondary thirst. These derangements result in long-term complications that affect the eyes, kidneys, nerves, and blood vessels.

### Sequence similarities
Contains 2 Sushi (CCP/SCR) domains.

### Cellular localization
Membrane.

### Images

**ab9496 - immunohistochemistry**

Formalin fixed paraffin embedded human tonsil stained with CD25, using ABC and AEC chromagen.
Overlay histogram showing Jurkat cells stained with ab9496 (red line). The cells were fixed with 80% methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab9496, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.

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