# Anti-IL-2 Receptor alpha antibody [Basiliximab]

**Product name**: Anti-IL-2 Receptor alpha antibody [Basiliximab]  
**Description**: Rabbit monoclonal [Basiliximab] to IL-2 Receptor alpha  
**Host species**: Rabbit  
**Specificity**: This antibody recognizes human IL-2R and binds to the epitope (116)ERIYHFV(122) within the extracellular domain of the CD25 subunit. Binding is abolished when 2 or more residues within the epitope are mutated. This epitope overlaps with the interaction site of CD25 and IL-2. CD25 is found in the high-affinity IL-2R (αβγc) – T cells only express CD25 upon activation. IL-2 binding to IL-2R on T cells modulates proliferation and differentiation.  
**Tested applications**: Suitable for: Flow Cyt, IHC-P  
**Species reactivity**: Reacts with: Rat, Human, Cynomolgus monkey, Rhesus monkey  
**Immunogen**: Tissue, cells or virus corresponding to IL-2 Receptor alpha. CTC 16 cells.  
**Positive control**: IHC-P: Rat spleen and thymus tissue. Flow Cyt: Human, rhesus monkey and cynomolgus monkey lymphocytes.

## Properties

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<tr>
<th>Property</th>
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<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
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</table>
| Storage buffer          | Preservative: 0.02% Proclin  
Constituent: PBS |
| Purity                  | Protein A purified |
| Clonality               | Monoclonal |
| Clone number            | Basiliximab |
| Isotype                 | IgG |
| Light chain type        | kappa |

## Applications
Our **Abpromise guarantee** covers the use of **ab245687** in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
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<tr>
<td>Flow Cyt</td>
<td></td>
<td>Use a concentration of 1 µg/ml.</td>
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<tr>
<td>IHC-P</td>
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<td>Use a concentration of 5 µg/ml.</td>
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**Target**

**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**

Formalin-fixed rat spleen tissue stained for IL-2 Receptor alpha with ab245687 at 5 µg/ml in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-2 Receptor alpha antibody [Basiliximab] (ab245687)
Formaldehyde-fixed rat thymus tissue stained for IL-2 Receptor alpha with ab245687 at 5 µg/ml in immunohistochemical analysis. Detected with an FITC-conjugated secondary antibody.

Human lymphocytes were stained with an isotype control (Panel A) or ab245687 (Panel B) at a concentration of 1 µg/ml for 30 mins at RT. After washing, bound antibody was detected using an AF488 conjugated donkey anti-rabbit antibody (ab150073).

Rhesus monkey lymphocytes were stained with an isotype control (Panel A) or ab245687 (Panel B) at a concentration of 1 µg/ml for 30 mins at RT. After washing, bound antibody was detected using an AF488 conjugated donkey anti-rabbit antibody (ab150073).

Cynomolgus monkey lymphocytes were stained with an isotype control (Panel A) or ab245687 (Panel B) at a concentration of 1 µg/ml for 30 mins at RT. After washing, bound antibody was detected using an AF488 conjugated donkey anti-rabbit antibody (ab150073).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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