

Product Datasheet

Anti-IL-2R alpha (CD25) [Basiliximab] (orb348865)

Catalog Number	orb348865
Category	Antibodies
Description	Human monoclonal antibody to CD25
Target	IL-2R alpha (CD25)
Clonality	Monoclonal
Species/Host	Human
Isotype	Human IgG1
Conjugation	Unconjugated
Reactivity	Human, Primate
Concentration	1 mg/ml
Buffer/Preservatives	PBS with 0.02% Proclin 300.
Purity	Purified
Immunogen	Basiliximab was prepared by immunizing BALB/c mice with CTC 16 cells.
UniProt ID	P01589
Tested applications	Blocking, FC, IF, IHC, WB

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Specificity

Basiliximab recognises the 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 ($\alpha\beta\gamma$ c) – T cells only express CD25 upon activation. IL-2 binding to IL-2R on T cells modulates proliferation and differentiation.

Clone Number

Basiliximab

Storage

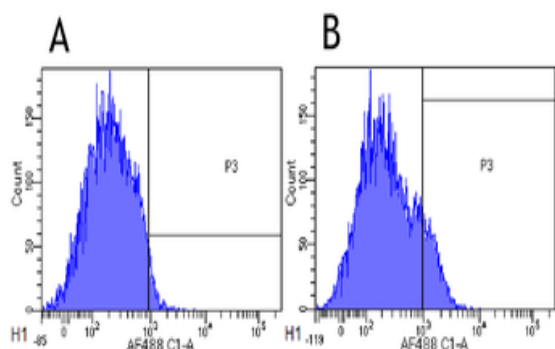
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Note

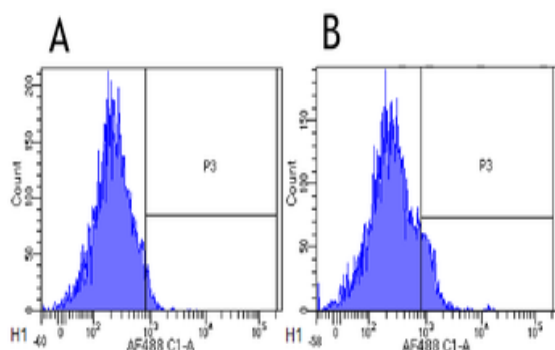
For research use only

Expiration Date

12 months from date of receipt.



Flow-cytometry using anti-CD25 antibody Basiliximab Cynomolgus monkey lymphocytes were stained with an isotype control (orb256390, panel A) or the rabbit-chimeric version of Basiliximab (orb348908, panel B) at a concentration of 1 µg/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells analysed on a FACSCanto flow-cytometer.



Flow-cytometry using anti-CD25 antibody Basiliximab Rhesus monkey lymphocytes were stained with an isotype control (orb256390, panel A) or the rabbit-chimeric version of Basiliximab (orb348908, panel B) at a concentration of 1 µg/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells analysed on a FACSCanto flow-cytometer.

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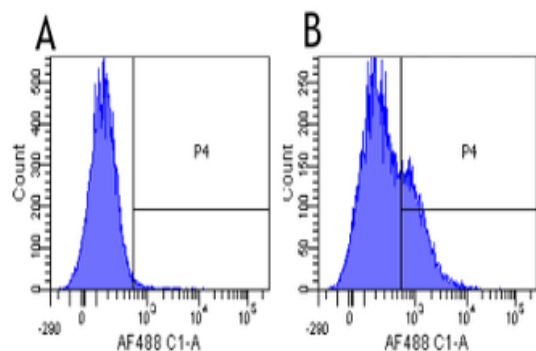
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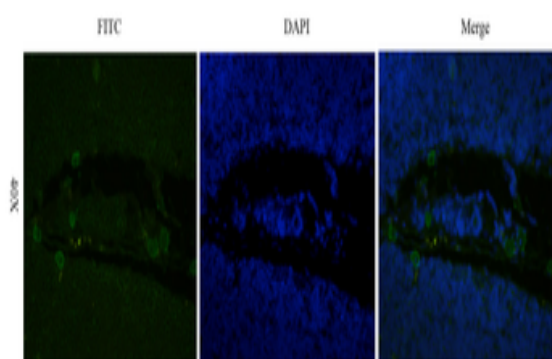
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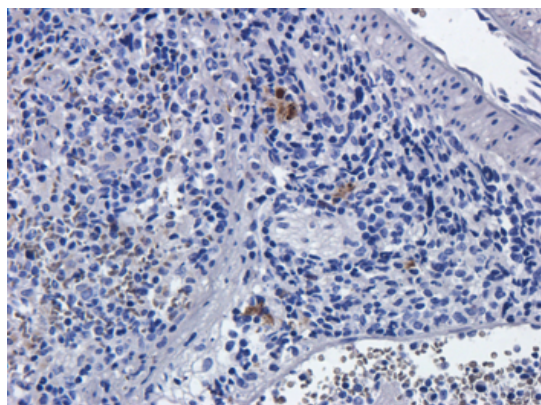
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Flow-cytometry using the anti-CD25 (IL2R) research biosimilar antibody Basiliximab Human lymphocytes were stained with an isotype control (orb256390, panel A) or the rabbit-chimeric version of Basiliximab (orb348908, panel B) at a concentration of 1 µg/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells analysed on a FACSCanto flow-cytometer.



Immunofluorescent staining of rat thymus using anti-CD25 antibody. Formaldehyde-fixed rat thymus slices were stained with orb348865 at 5 µg/ml and detected with a FITC-conjugated secondary antibody.



Immunohistochemical staining of rat spleens using anti-CD25 antibody. Formalin fixed rat spleen slices were stained with a orb348865 at 5 µg/ml. The anti-human CD25 antibody also shows some cross-reactivity with rat in IHC.

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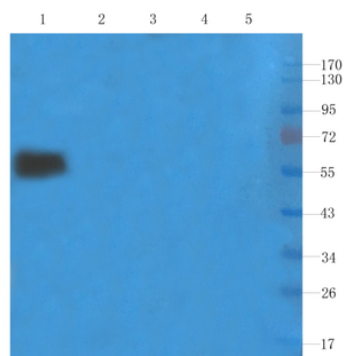
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Western Blot using anti-IL2R alpha (CD25) antibody. Human thyroid cancer (lane 1), rat spleen (lane 2), mouse lymph node (lane 3), mouse thymus (lane 4) and rat small intestines (lane 5) samples were resolved on a 10% SDS PAGE gel and blots probed with orb348865 at 1 μ g/ml before being detected by a secondary antibody.

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