Product datasheet

Anti-CD23/FCER2 Antibody

Catalog Number: *PB9051*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-CD23/FCER2 Antibody
Gene Name	FCER2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF, FCM, ELISA(Cap)
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived mouse CD23 recombinant protein (Position: E50-P331). Mouse CD23 shares 52% amino acid (aa) sequence identity with human CD23.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	38-45 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 ELISA(Cap): 1:50-1:200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

CD23, also known as Fc epsilon RII, or FcεRII, is the "low-affinity" receptor for IgE, an antibody isotype involved in allergy and resistance to parasites, and is important in regulation of IgE levels. There are two forms of CD23: CD23a and CD23b. CD23a is present on follicular B cells, whereas CD23b requires IL-4 to be expressed on T-cells, monocytes, Langerhans cells, eosinophils, and macrophages. As part of a mapping of multiple probes to specific bands on chromosome 19 by fluorescence in situ hybridization, the FCE2 gene was assigned to 19p13.3. CD23 (FCE2) is a key

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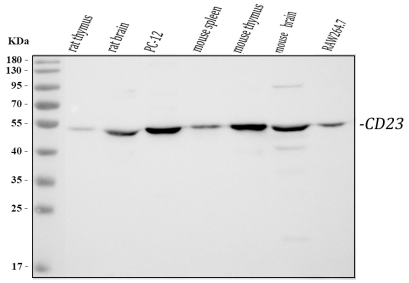
molecule for B-cell activation and growth. It is the low-affinity receptor for IgE. The truncated molecule can be secreted, then functioning as a potent mitogenic growth factor.

Reference

Anti-CD23/FCER2 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of CD23/FCER2 using anti-CD23/FCER2 antibody (PB9051). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat thymus tissue lysates,
Lane 2: rat brain tissue lysates,
Lane 3: rat PC-12 whole cell lysates,
Lane 4: mouse spleen tissue lysates,
Lane 5: mouse thymus tissue lysates,
Lane 6: mouse brain tissue lysates,
Lane 7: mouse RAW264.7 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CD23/FCER2 antigen affinity purified polyclonal antibody (PB9051) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CD23/FCER2 at approximately 45 kDa. The expected band size for CD23/FCER2 is at 38 kDa.

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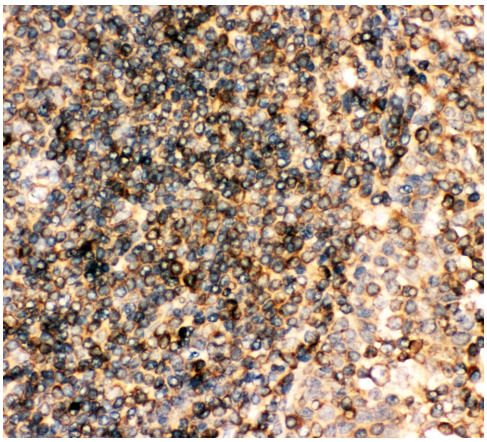
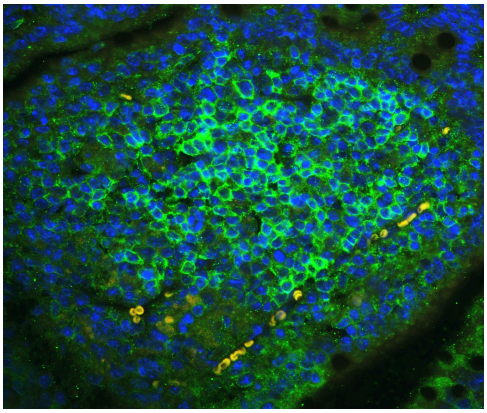
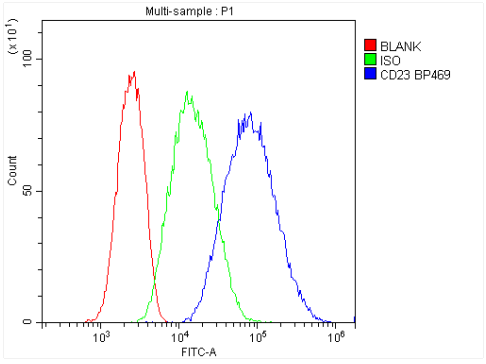


IHC analysis of CD23/FCER2 using anti-CD23/FCER2 antibody (PB9051).
CD23/FCER2 was detected in a paraffin-embedded section of human tonsil tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-CD23/FCER2 Antibody (PB9051) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of CD23 using anti-CD23 antibody (PB9051)
CD23 was detected in paraffin-embedded section of mouse lymphaden tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/mL rabbit anti-CD23 Antibody (PB9051) overnight at 4°C. Fluoro488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of mouse BMC cells using anti-CD23/FCER2 antibody (PB9051).
Overlay histogram showing mouse BMC cells stained with PB9051 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD23/FCER2 Antibody (PB9051) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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