Product datasheet

Anti-TNFRSF7/CD27 Antibody

Catalog Number: *PB9931*

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-TNFRSF7/CD27 Antibody
Gene Name	CD27
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse
Tested Application	WB, FCM, ICC/IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human CD27 recombinant protein (Position: A20-R191). Human CD27 shares 62.8% amino acid (aa) sequence identity with mouse CD27.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	55 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 28 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

CD27 is a member of the tumor necrosis factor receptor superfamily. This receptor is required for generation and long-term maintenance of T cell immunity. It binds to ligand CD70, and plays a key role in regulating B-cell activation and immunoglobulin synthesis. And this receptor transduces signals that lead to the activation of NF-kappaB and MAPK8/JNK. Adaptor proteins TRAF2 and TRAF5 have been shown to mediate the signaling process of this receptor. CD27-binding protein (SIVA), a proapoptotic protein, can bind to this receptor and is thought to play an important role in the apoptosis induced by this receptor.

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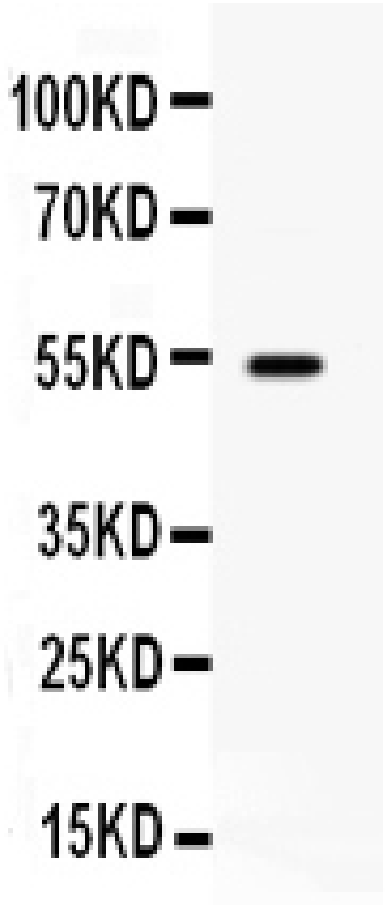
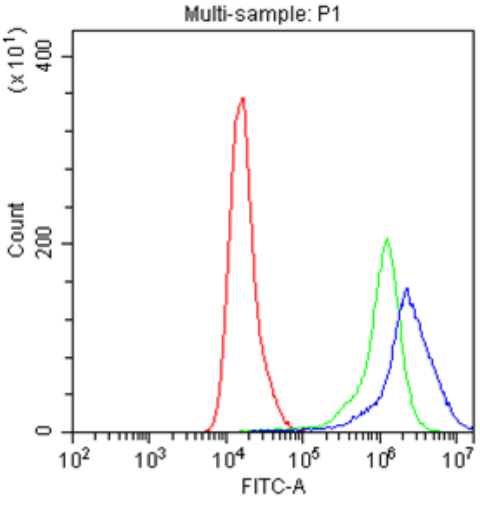
Selected Validation Data



Western blot analysis of TNFRSF7/CD27 using anti-TNFRSF7/CD27 antibody (PB9931). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-TNFRSF7/CD27 antigen affinity purified polyclonal antibody (PB9931) 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 TNFRSF7/CD27 at approximately 55 kDa. The expected band size for TNFRSF7/CD27 is at 29 kDa.



Flow Cytometry analysis of A549 cells using anti-CD27 antibody (PB9931).Overlay histogram showing A549 cells stained with PB9931 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD27 Antibody (PB9931, 1:100) for 30 min at 20°C. DyLight488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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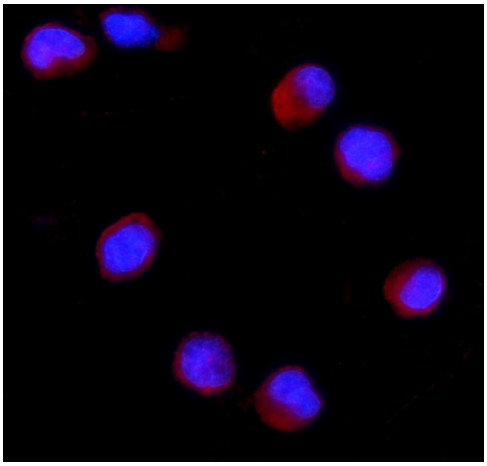

IF analysis of TNFRSF7/CD27 using anti-TNFRSF7/CD27 antibody (PB9931). TNFRSF7/CD27 was detected in an immunocytochemical section of K562 cells. The section was incubated with rabbit anti-TNFRSF7/CD27 Antibody (PB9931) at a dilution of 1:100. Dylight550-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1135) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).