

Product Datasheet

CD3 epsilon/Cd3e Rabbit Polyclonal Antibody (orb614101)

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| Catalog Number | orb614101 |
| Category | Antibodies |
| Description | Anti-CD3 epsilon/Cd3e Antibody. Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Mouse, Rat. |
| Target | T-cell surface glycoprotein CD3 epsilon chain |
| Clonality | Polyclonal |
| Species/Host | Rabbit |
| Isotype | Rabbit IgG |
| Conjugation | Unconjugated |
| Reactivity | Mouse, Rat |
| Form/Appearance | Lyophilized |
| Concentration | 500 µg/ml |
| Buffer/Preservatives | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ . |
| Reconstitution | Add 0.2ml of distilled water will yield a concentration of 500ug/ml. |
| Purification | Immunogen affinity purified. |
| Immunogen | E.coli-derived mouse CD3 epsilon/Cd3e recombinant protein (Position: D22-A113). |
| UniProt ID | P22646 |

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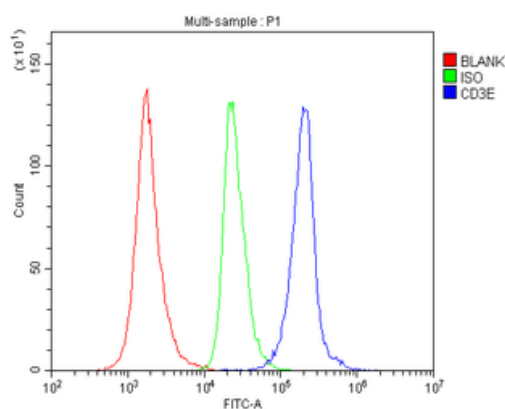
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| | |
|----------------------------|--|
| MW | 23 kDa |
| Tested applications | ELISA, FC, IHC, WB |
| Dilution range | Western blot, 0.1-0.25µg/ml, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1µg/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3µg/1x10 ⁶ cells, Mouse ELISA, 0.1-0.5µg/ml, - Rat |
| Specificity | No cross reactivity with other proteins. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Antibody Type | Primary Antibody |
| 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 analysis of mouse spleen tissues using anti-CD3 epsilon/Cd3e antibody. Overlay histogram showing mouse spleen tissues (Blue line). The tissues were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD3 epsilon/Cd3e Antibody (1 µg/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (5-10 µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 µg/1x10⁶) 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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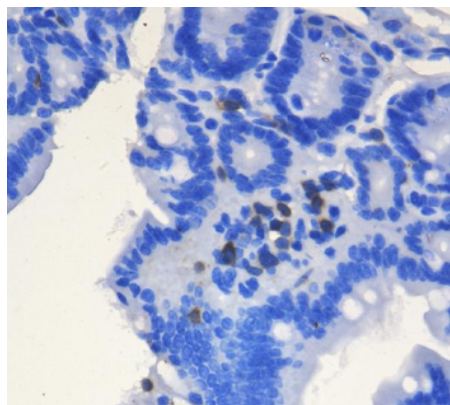
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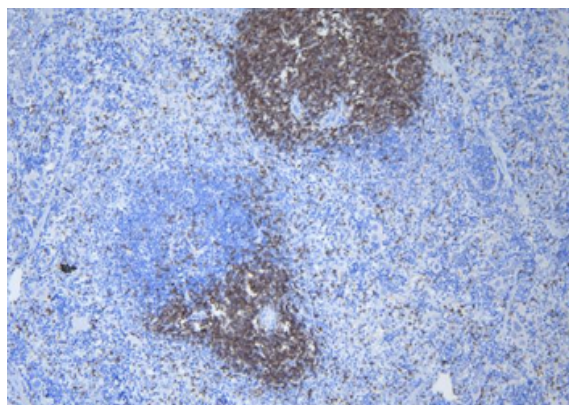
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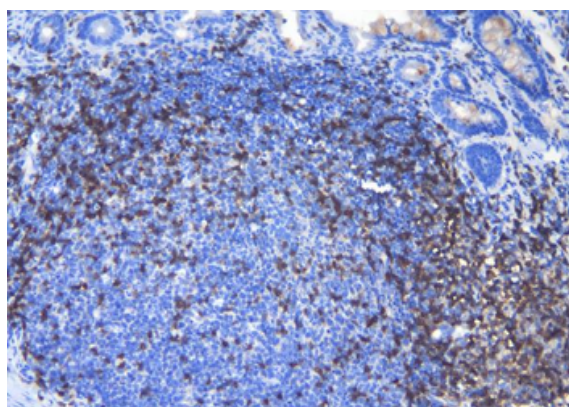
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IHC analysis of CD3 epsilon/Cd3e using anti-CD3 epsilon/Cd3e antibody. CD3 epsilon/Cd3e was detected in a paraffin-embedded section of mouse lymph node tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml rabbit anti-CD3 epsilon/Cd3e Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC analysis of CD3 epsilon/Cd3e using anti-CD3 epsilon/Cd3e antibody. CD3 epsilon/Cd3e was detected in a paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml rabbit anti-CD3 epsilon/Cd3e Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC analysis of CD3 epsilon/Cd3e using anti-CD3 epsilon/Cd3e antibody. CD3 epsilon/Cd3e was detected in a paraffin-embedded section of rat lymph node tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml rabbit anti-CD3 epsilon/Cd3e Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

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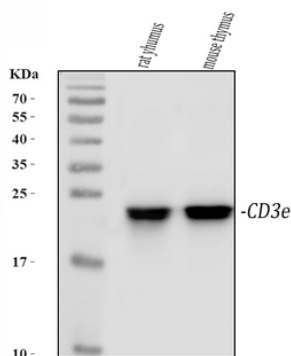
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Western blot analysis of CD3 epsilon/Cd3e using anti-CD3 epsilon/Cd3e antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat thymus tissue lysates, Lane 2: mouse thymus tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CD3 epsilon/Cd3e antigen affinity purified polyclonal antibody at 0.25 μ g/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CD3 epsilon/Cd3e at approximately 23 kDa. The expected band size for CD3 epsilon/Cd3e is at 21 kDa.

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