

Product Datasheet

Integrin Alpha 4/Itga4 Rabbit Polyclonal Antibody (orb1939838)

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| Catalog Number | orb1939838 |
| Category | Antibodies |
| Description | Anti-Integrin Alpha 4/Itga4 Antibody. Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Mouse, Rat. |
| Target | Integrin alpha-4 |
| Clonality | Polyclonal |
| Species/Host | Rabbit |
| Isotype | IgG |
| Conjugation | Unconjugated |
| Reactivity | Mouse, Rat |
| Form/Appearance | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml. |
| Buffer/Preservatives | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ . |
| Reconstitution | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml. |
| Purification | Immunogen affinity purified. |
| Immunogen | E.coli-derived mouse Integrin Alpha 4/Itga4 recombinant protein (Position: Y41-D963). Mouse Itga4 shares 85.2% amino acid (aa) sequence identity with human Itga4. |

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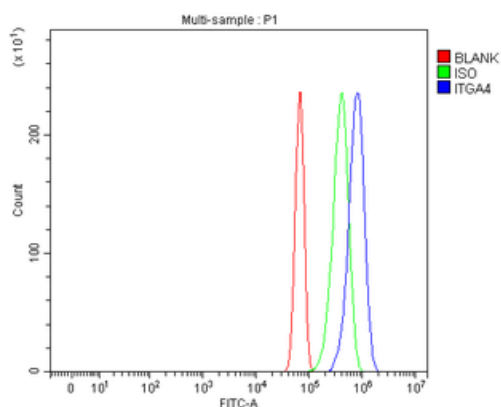
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|----------------------------|---|
| UniProt ID | Q00651 |
| MW | 150-180 kDa |
| Tested applications | ELISA, FC, WB |
| Dilution range | Western blot, 0.25-0.5 µg/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells, Mouse ELISA, 0.1-0.5 µg/ml |
| 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 NIH/3T3 cells using anti-Integrin Alpha 4/Itga4 antibody. Overlay histogram showing NIH/3T3 cells (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Integrin Alpha 4/Itga4 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 (Red line) was also used as a control.

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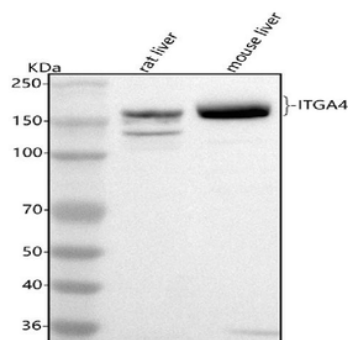
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Western blot analysis of Integrin Alpha 4/Itga4 using anti-Integrin Alpha 4/Itga4 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: mouse liver 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-Integrin Alpha 4/Itga4 antigen affinity purified polyclonal antibody at 0.5 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 Integrin Alpha 4/Itga4 at approximately 150-180 kDa. The expected band size for Integrin Alpha 4/Itga4 is at 116 kDa.

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