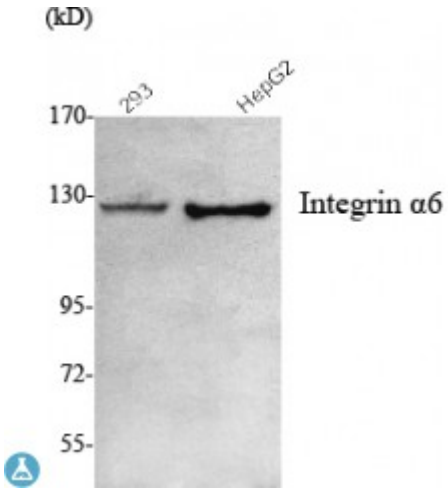
# Anti-Integrin alpha antibody

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| **Description** | Mouse monoclonal to Integrin alpha6. |

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| **Model** | STJ98511 |
| **Host** | Mouse |
| **Reactivity** | Bovine, Canine, Human, Mouse, Rat, Swine |
| **Applications** | IF, WB |
| **Immunogen** | Purified recombinant human Integrin alpha6 (N-terminal) protein fragments expressed in E.coli. |
| **Immunogen Region** | N-terminal |
| **Gene ID** | 3655 |
| **Gene Symbol** | ITGA6 |
| **Dilution range** | WB 1:1000-1:2000IF 1:100-1:500 |
| **Specificity** | Integrin alpha6 Monoclonal Antibody detects endogenous levels of Integrin alpha6 protein. |
| **Tissue Specificity** | Integrin alpha-6/beta-4 is predominantly expressed by epithelia. Isoforms containing segment X1 are ubiquitously expressed. Isoforms containing segment X1X2 are expressed in heart, kidney, placenta, colon, duodenum, myoblasts and myotubes, and in a limited number of cell lines; they are always coexpressed with the ubiquitous isoform containing segment X1. In some tissues (e.g. Salivary gland), isoforms containing cytoplasmic segment A and isoforms containing segment B are detected while in others, only iso |
| **Purification** | Affinity purification |

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| **Note** | For Research Use Only (RUO). |
| **Protein Name** | Integrin alpha-6 CD49 antigen-like family member F VLA-6 CD antigen CD49f Integrin alpha-6 heavy chain Integrin alpha-6 light chain Processed integrin alpha-6 Alpha6p |
| **Clonality** | Monoclonal |
| **Conjugation** | Unconjugated |
| **Formulation** | Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol. |
| **Concentration** | 1 mg/ml |
| **Storage Instruction** | Store at -20°C, and avoid repeat freeze-thaw cycles. |
| **Database Links** | HGNC:6142OMIM:147556 |
| **Alternative Names** | Integrin alpha-6 CD49 antigen-like family member F VLA-6 CD antigen CD49f Integrin alpha-6 heavy chain Integrin alpha-6 light chain Processed integrin alpha-6 Alpha6p |
| **Function** | Integrin alpha-6/beta-1 is a receptor for laminin on platelets. Integrin alpha-6/beta-4 is a receptor for laminin in epithelial cells and it plays a critical structural role in the hemidesmosome . ITGA6:ITGB4 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling . ITGA6:ITGB4 binds to IGF1 and this binding is essential for IGF1 signaling . |
| **Cellular Localization** | Cell membrane Cell membrane |
| **Post-translational Modifications** | Isoforms containing segment A, but not segment B, are the major targets for PMA-induced phosphorylation. Phosphorylation occurs on 'Ser-1103' of isoform alpha-6X1X2A. Phosphorylation is not required for the induction of integrin alpha-6A/beta-1 high affinity but may reduce the affinity for ligand.; In invasive prostate cancer ITGA6 undergoes PLAU-mediated cleavage at residues Arg-634-635-Arg in a time-dependent manner enhancing cell invasion and migration in vitro. Palmitoylation by DHHC3 enhances stability and cell surface expression. |