# ITGA11 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | ITGA11, Polyclonal Antibody |
| **Full Product Name** | ITGA11 Conjugated Antibody |
| **Product Gene Name** | anti-ITGA11 antibody |
| **Product Synonym Names** | HsT18964; RP11-709B3.2 |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | 0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide |
| **Specificity** | The antibody detects endogenous levels of total ITGA11 protein. |
| **Preparation and Storage** | Store at 4 degree C for 6 months. |
| **Molecular Weight** | 133 |
| **OMIM** | AF109681 mRNA |
| **3D Structure** | ModBase 3D Structure for Q9UKX5 |
| **Immunogen** | Synthetic peptide corresponding to a region derived from internal residues of human integrin, alpha 11 |
| **Conjugation** | Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750 |
| **Excitation Emission** | AF350: 346nm/442nm |
| **Applications Tested/Suitable for anti-ITGA11 antibody** | Most Applications |
| **Application Notes for anti-ITGA11 antibody** | Suggested Dilution:<br>AF350 conjugated: most applications: 1:50-1:250<br>AF405 conjugated: most applications: 1:50-1:250<br>AF488 conjugated: most applications: 1:50-1:250<br>AF555 conjugated: most applications: 1:50-1:250<br>AF594 conjugated: most applications: 1:50-1:250<br>AF647 conjugated: most applications: 1:50-1:250<br>AF680 conjugated: most applications: 1:50-1:250<br>AF750 conjugated: most applications: 1:50-1:250<br>Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000 |
| **Related Product Information for anti-ITGA11 antibody** | This gene encodes an alpha integrin. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This protein contains an I domain, is expressed in muscle tissue, dimerizes with beta 1 integrin in vitro, and appears to bind collagen in this form. Therefore, the protein may be involved in attaching muscle tissue to the extracellular matrix. Alternative transcriptional splice variants have been found for this gene, but their biological validity is not determined. |
| **Other Notes** | Small volumes of anti-ITGA11 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for ITGA11 purchase** | MBS9448099 is an antibody targeting ITGA11. Also known as ITGA11 Conjugated Antibody. Reactive in Human, Mouse. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ITGA11. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 222136583 |
| **NCBI GeneID** | 3636 |
| **NCBI Accession #** | NP_001558 |
| **UniProt Primary Accession #** | Q9UKX5 |
| **UniProt Related Accession #** | O15357 |
| **GenBank Nucleotide #** | NP_001558.3 |
| **NCBI Official Full Name** | phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2 |
| **NCBI Official Synonym Full Names** | inositol polyphosphate phosphatase like 1 |
| **NCBI Official Symbol** | INPPL1 |
| **NCBI Official Synonym Symbols** | OPSMD; SHIP2 |
| **UniProt Protein Name** | Integrin alpha-11 |
| **Protein Family** | Integrin |
| **UniProt Gene Name** | ITGA11 |
| **NCBI Protein Information** | phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2 |
| **NCBI Summary for ITGA11** | The protein encoded by this gene is an SH2-containing 5'-inositol phosphatase that is involved in the regulation of insulin function. The encoded protein also plays a role in the regulation of epidermal growth factor receptor turnover and actin remodelling. Additionally, this gene supports metastatic growth in breast cancer and is a valuable biomarker for breast cancer. [provided by RefSeq, Jan 2009] |
| **UniProt Comments for ITGA11** | Integrin alpha-11/beta-1 is a receptor for collagen. |
| **Research Articles on ITGA11** | **1.** SH2 domain-containing inositol-5'-phosphatase 2 (SHIP2) binds to the Western CagA-specific EPIYA-C segment or East Asian CagA-specific EPIYA-D segment of Helicobacter pylori in a tyrosine phosphorylation-dependent manner. SHIP2 binds more strongly to EPIYA-C than to EPIYA-D. Interaction with CagA tethers SHIP2 to the plasma membrane, where it mediates production of phosphatidylinositol 3,4-diphosphate [PI(3,4)P(2) ]. |
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