

## Product datasheet for TP511489

### Itga4 (NM\_010576) Mouse Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Purified recombinant protein of Mouse integrin alpha 4 (Itga4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| Species:                              | Mouse   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >MR211489 representing NM_010576<br>Red=Cloning site Green=Tags(s)  |

MAAEARCRPRSRGIALREAVMLLLYFGVPTGHSYNLDPENALLYQGSPGTLFGYSVVLHSHGSKRWLIVG  
APTASWLSNASVVPNGAIYRCGIRKNPNQTCQLQLGSPSGEPCGKTCLEERDNQWLGVTLSRQPGENG  
IVTCGHRWKNIFYMKSDNKLPTGICYMPSDLRTELSKRMAPCYKDYTRKGFENFASCQAGISSFYTQDL  
IVMGAPGSSYWTGTVFVYNITTNYKAFVDRQNQVKFGSYLGYSVGAGHFRSPHTTEVGGAPQHEQIGK  
AYIFSIDENELNIVYEMKGGKLSYFGASVCAVDLNADGFSDLLVGAPMQSTIREEGRVYVYINSGMGAV  
MVEMERVLVGS DKYAA RFGESIANLGDIDNDGFEDIAIGAPQEDDLRGAVYIYNGRVDGISSTYSQRIEG  
QQISKSLRMFGQSISGQIDADNNGYVDVAVGAFQSDSAVLLRTRPVVIVEASLSHPESVNRTKFDCTENG  
LPSVCMHLTLCFSYKGEVPGYIVLFYNVSLDVHRKAESPFRYFFSNGTSDVITGSIRVSSSGEKCRT  
QAFMRKDVRDILTPIHVEATYHLGHHVITKRNT EFPPLQPILQKKEKDVIRKMINFARFCAYENC  
LQVSAKVGLKPYENKTYLAVGSMKTIMLNVS LFNAGDDAYETTLNVQLPTGLYFIKILDLEEKQINCEV  
TESSGIVKLACSLGYIYVDRLSRIDISFLLDVSSLSRAHEDLSISVHASCENEGELDQVRDNRVTLTIPL  
RYEVMMLTVHGLVNPTSFVYGSSEENEPETCMAEKLNLTFHVINTGISMAPNVSVKIMV PNSFLPQDDKLF  
NVLDVQTTTGQCHFHYGRECTFAQQKGIAGTLTDIVKFLSKTDKRLLYCMKADQHCLDFLCNFGKMESG  
KEASVHIQLEGRPSILEMDETSSLKFEIKATAFPEPHPKVIELNKDENVAHVFLGLHHQRPKRHFTIII  
ITISLLLGLIVLLLISCVMWKAGFFKRQYKISILQEENRRDSWSYVNSKSNDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

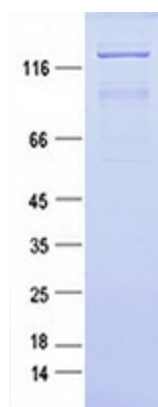
|                |   |
|----------------|---|
| Tag:           | C-MYC/DDK   |
| Predicted MW:  | 115.5 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method          |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol        |



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|                      |  |
|----------------------|--|
| <b>Note:</b>         | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.   |
| <b>Storage:</b>      | Store at -80°C after receiving vials.  |
| <b>Stability:</b>    | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| <b>RefSeq:</b>       | <a href="#">NP_034706</a>  |
| <b>Locus ID:</b>     | 16401  |
| <b>UniProt ID:</b>   | <a href="#">Q00651</a> , <a href="#">Q792F9</a> , <a href="#">Q8BQ25</a>   |
| <b>RefSeq Size:</b>  | 9833   |
| <b>Cytogenetics:</b> | 2 47.38 cM   |
| <b>RefSeq ORF:</b>   | 3096   |
| <b>Synonyms:</b>     | CD49D; Itga4B  |
| <b>Summary:</b>      | <p>Integrins alpha-4/beta-1 (VLA-4 or LPAM-2) and alpha-4/beta-7 (LPAM-1) are receptors for fibronectin. They recognize one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors for VCAM1. Integrin alpha-4/beta-1 recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-4/beta-7 is also a receptor for MADCAM1. It recognizes the sequence L-D-T in MADCAM1. On activated endothelial cells integrin VLA-4 triggers homotypic aggregation for most VLA-4-positive leukocyte cell lines. It may also participate in cytolytic T-cell interactions with target cells. ITGA4:ITGB1 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling. ITGA4:ITGB1 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1.[UniProtKB/Swiss-Prot Function]</p> |

### Product images:



Purified recombinant protein Itga4 was analyzed by SDS-PAGE gel and Coomossie Blue Staining.