



# Integrin $\alpha$ 4 Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-mAb-17084                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>                   | ITGA4                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from the Internal region of human ITGA4. AA range:571-620                                                                                                                                                                                                                                                                                                                                                     |
| <b>Specificity</b>                 | Integrin $\alpha$ 4 Monoclonal Antibody detects endogenous levels of Integrin $\alpha$ 4 protein.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Dilution</b>                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>                      | $\geq 90\%$                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Stability</b>           | $-20^{\circ}\text{C}/1$ year                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>                    | 269C wild type;Antigen CD49D;alpha 4 subunit of VLA 4 receptor;CD49 antigen like family member D;CD49 antigen-like family member D;CD49d;IA4;Integrin alpha 4;Integrin alpha 4 subunit;Integrin alpha IV;Integrin alpha-4;Integrin alpha-IV;Integrin;alpha 4 (antigen CD49D;alpha 4 subunit of VLA 4 receptor);ITA4_HUMAN;ITGA4;MGC9518;OTTHUMP2532;Very late activation protein 4 receptor;alpha 4 subunit;VLA 4 subunit alpha;VLA-4 subunit alpha;VLA4;Integrin $\alpha$ 4 |
| <b>Observed Band</b>               | 120kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Calculated Molecular Weight</b> | 120kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Cell Pathway</b>                | Membrane; Single-pass type I membrane protein.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Tissue Specificity</b>          | Lymph,Peripheral blood,Prostate,Spleen,Testis,                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Function</b>                    | domain:The SG1 motif is involved in binding to chondroitin sulfate glycosaminoglycan and cell adhesion.,function:Integrins alpha-4/beta-1 (VLA-4) and alpha-4/beta-7 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.,PTM:Phosphorylation on Ser-1027 inhibits PXN binding.,similarity:Belongs to the integrin alpha chain family.,similarity:Contains 7 FG-GAP repeats.,subunit:Heterodimer of an alpha and a beta subunit

#### Background

integrin subunit alpha 4(ITGA4) Homo sapiens The gene encodes a member of the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 4 subunit. This subunit associates with a beta 1 or beta 7 subunit to form an integrin that may play a role in cell motility and migration. This integrin is a therapeutic target for the treatment of multiple sclerosis, Crohn's disease and inflammatory bowel disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015],

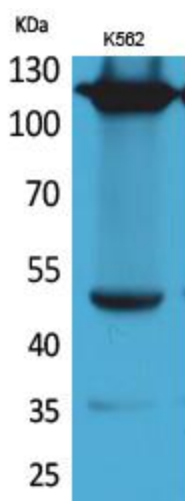
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western Blot analysis of various cells using Integrin alpha 4 Monoclonal Antibody