



## CD49d (Integrin alpha4)

### Catalog number

C2404-71D

### Supplier

United States Biological

Integrins are alpha/beta heterodimeric cell surface receptors that play a pivotal role in cell adhesion and migration, as well as in growth and survival (1,2). The integrin family contains at least 18 alpha and 8 beta subunits that form 24 known integrins with distinct tissue distribution and overlapping ligand specificities (3). Integrins not only transmit signals to cells in response to the extracellular environment (outside-in signaling), but also sense intracellular cues to alter their interaction with the extracellular environment (inside-out signaling) (1,2).

### Applications

Suitable for use in Western Blot and Immunoprecipitation. Other applications not tested.

### Recommended Dilution

Western Blot: 1:1000

Immunoprecipitation: 1:100

Optimal dilutions to be determined by the researcher.

### Storage and Stability

May be stored at 4°C for short-term only. For long-term storage, aliquot and store at -20°C. Aliquots are stable for 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

### Immunogen

Synthetic peptide corresponding to residues surrounding Ser1027 of human integrin alpha4.

### Formulation

Supplied as a liquid in 10mM sodium HEPES, pH 7.5, 150mM sodium chloride, 0.1mg/ml BSA, 50% glycerol.

### Purity

Purified by peptide affinity chromatography.

### Specificity

Recognizes endogenous levels of human integrin alpha4 mature protein (150kD), alpha4 precursor protein (140kD), as well as 70kD cleaved C-terminal alpha 4 fragment.

### Product Type

Pab

### Source

human

### Isotype



IgG

**Grade**

Affinity Purified

**Applications**

IP WB

**Crossreactivity**

Hu

**Storage**

-20°C

**Reference**

1. Hood, J.D. and Cheresch, D.A. (2002) Nat Rev Cancer 2:91-100. 2. Liu, S. et al. (2000) J Cell Sci 113(20):3563-71. 3. Plow, E.F. et al. (2000) J Biol Chem 275:21785-8. 4. Bonder, C.S. et al. (2005) Immunity 23:153-63. 5. Arroyo, A.G. et al. (1999) Immunity 11:555-66. 6. Yang, J.T. et al. (1995) Development 121:549-60. 7. Nishiya, N. et al. (2005) Nat Cell Biol 7:343-52. 8. Alon, R. et al. (2005) J Cell Biol 171:1073-84. 9. Lanzarotto, F. et al. (2006) Drugs 66:1179-89. 10. Bartt, R.E. (2006) Curr Opin Neurol 19:341-9. 11. Teixidó, J. et al. (1992) J Biol Chem 267:1786-91. 12. Pujades, C. et al. (1996) Biochem J 313(3):899-908.