

CD102/ICAM-2 (D7P2Q) Rabbit mAb

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Applications: W, IP, IHC-P, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 45, 55	Source/Isotype: Rabbit IgG	UniProt ID: #P13598	Entrez-Gene Id: 3384
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:50
1:100
1:100
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CD102/ICAM-2 (D7P2Q) Rabbit mAb recognizes endogenous levels of total CD102 (ICAM-2) protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human CD102 (ICAM-2) protein.

Background

Intercellular cell adhesion molecule-2 (CD102/ICAM-2) is a cell surface glycoprotein that belongs to the immunoglobulin superfamily (IgSF) of adhesion molecules. Like CD54/ICAM-1, CD102/ICAM-2 is a ligand that binds the leukocyte adhesion molecule LFA-1 (leukocyte function-associated antigen-1), which mediates intercellular interactions between immune cells and other cell types (1). Expression of CD102/ICAM-2 has been shown to affect angiogenesis (2), cellular radioresistance (3) and anti-tumor immune response (4). Along with CD54/ICAM-1, CD102/ICAM-2 mediates T cell crawling and diapedesis across the blood-brain barrier (5), as well as T cell migration across the bronchial epithelium (6). CD102/ICAM-2 interaction with the actin cytoskeleton through α -actinin has been shown to limit the mobility on neuroblastoma cells (7), and this effect is dependent on glycosylation of CD102/ICAM-2 (8).

Background References

1. Staunton, D.E. et al. (1989) *Nature* 339, 61-4.
2. Huang, M.T. et al. (2005) *Blood* 106, 1636-43.
3. Ishigami, T. et al. (2008) *Br J Cancer* 98, 1357-65.
4. Hiraoka, N. et al. (2011) *Gastroenterology* 140, 310-21.
5. Steiner, O. et al. (2010) *J Immunol* 185, 4846-55.
6. Porter, J.C. and Hall, A. (2009) *FASEB J* 23, 492-502.
7. Yoon, K.J. et al. (2008) *PLoS One* 3, e3629.
8. Feduska, J.M. et al. (2013) *BMC Cancer* 13, 261.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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