

Syntenin

Cat.No. 133 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 100 up to 1 : 1000 (AP staining) IP: yes ICC: yes IHC: yes IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 298 from human Syntenin1 (UniProt Id: O00560)
Reactivity	Reacts with: human (O00560, Q9H190). Weaker signal: rat (Q9JI92, Q4KLN0), mouse (O08992, Q99JZ0). Other species not tested yet.
Specificity	Detects human protein with higher sensitivity. Recognizes syntenin 1 and 2. (K.D. verified)
matching control	133-0P

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Syntenin is an ubiquitously expressed PDZ domain protein that binds to the cytoplasmic tails of several cell surface proteins. It has been particularly implicated in cell-cell interactions in the brain via its interactions with proteins such as syndecans, ephrins and neurofascin.

Selected References SYSY Antibodies

The PDZ-adaptor protein syntenin-1 regulates HIV-1 entry.
Gordón-Alonso M, Rocha-Perugini V, Álvarez S, Moreno-Gonzalo O, Ursa A, López-Martín S, Izquierdo-Useros N, Martínez-Picado J, Muñoz-Fernández MÁ, Yáñez-Mó M, Sánchez-Madrid F, et al.
Molecular biology of the cell (2012) 23(12): 2253-63. **WB, ICC, IP; KD verified; tested species: human**

Association of syntenin-1 with M-RIP polarizes Rac-1 activation during chemotaxis and immune interactions.
Sala-Valdés M, Gordón-Alonso M, Tejera E, Ibáñez A, Cabrero JR, Ursa A, Mittelbrunn M, Lozano F, Sánchez-Madrid F, Yáñez-Mó M
Journal of cell science (2012) 125(Pt 5): 1235-46. **WB, ICC**

Tyrosine dephosphorylation of the syndecan-1 PDZ binding domain regulates syntenin-1 recruitment.
Sulka B, Lortat-Jacob H, Terreux R, Letourneur F, Rousselle P
The Journal of biological chemistry (2009) 284(16): 10659-71. **WB, ICC**

The tandem PDZ protein Syntenin interacts with the aminoacyl tRNA synthetase complex in a lysyl-tRNA synthetase-dependent manner.

Meerschaert K, Remue E, De Ganck A, Staes A, Boucherie C, Gevaert K, Vandekerckhove J, Kleiman L, Gettemans J
Journal of proteome research (2008) 7(11): 4962-73. **WB, IP**

Proteomic peptide phage display uncovers novel interactions of the PDZ1-2 supramodule of syntenin.
Garrido-Urbani S, Garg P, Ghossoub R, Arnold R, Lembo F, Sundell GN, Kim PM, Lopez M, Zimmermann P, Sidhu SS, Ivarsson Y, et al.
FEBS letters (2016) 590(1): 3-12. **WB**

NG2 regulates directional migration of oligodendrocyte precursor cells via Rho GTPases and polarity complex proteins.
Binamé F, Sakry D, Dimou L, Jolivel V, Trotter J
The Journal of neuroscience : the official journal of the Society for Neuroscience (2013) 33(26): 10858-74. **WB**

Selected General References

Syntenin-syndecan binding requires syndecan-syntenin and the co-operation of both PDZ domains of syntenin.
Grootjans JJ, Reekmans G, Ceulemans H, David G
The Journal of biological chemistry (2000) 275(26): 19933-41.

A role for a PDZ protein in the early secretory pathway for the targeting of proTGF-α to the cell surface.
Fernández-Larrea J, Merlos-Suárez A, Ureña JM, Baselga J, Arribas J
Molecular cell (1999) 3(4): 423-33.

Identification of syntenin as a protein of the apical early endocytic compartment in Madin-Darby canine kidney cells.
Fialka I, Steinlein P, Ahorn H, Böck G, Burbelo PD, Habermann M, Lottspeich F, Paiha K, Pasquali C, Huber LA
The Journal of biological chemistry (1999) 274(37): 26233-9.

Syntenin, a PDZ protein that binds syndecan cytoplasmic domains.
Grootjans JJ, Zimmermann P, Reekmans G, Smets A, Degeest G, Dürr J, David G
Proceedings of the National Academy of Sciences of the United States of America (1997) 94(25): 13683-8.