

12236

Syndecan 4 Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 29	Source/Isotype: Rabbit	UniProt ID: #P31431	Entrez-Gene Id: 6385	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		Syndecan 4 Antibody recognizes endogenous levels of total Syndecan 4 protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro103 of human Syndecan 4 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		Syndecans are a family of type 1 transmembrane heparan sulfate proteoglycans comprising four members in mammals (SDC1-4) (1) encoded by four syndecan genes. Syndecans are involved in embryonic development, tumorigenesis, and angiogenesis (2). The extracellular domain harbors attachment sites for heparan sulfate and chondroitin sulfate chains, facilitating interaction with an array of proteins, including a plethora of growth factors. In addition, the hydrophobic C-terminal intracellular domain can interact with proteins containing a PDZ domain (2). These interactions place syndecans as important integrators of membrane signaling (3). Syndecans undergo proteolytic cleavage causing the release of their extracellular domain (shedding), converting the membrane-bound proteins into soluble molecular effectors (4).					
		types (5). Syndecan 4 interaction with Rho f	controls focal adhe family GTPase and p s linked to ectodom	d is enriched in the focal sion formation and regu protein kinase C family n ain shedding of Syndeca	ılates cell migratior nembers (6-11). Pho	through sphorylation of the	
Background References		2. Multhaupt, H.A. et a 3. Zimmermann, P. an 4. Manon-Jensen, T. et 5. Woods, A. and Cou 6. Harrington, E.O. et 7. Oh, E.S. et al. (1997 8. Woods, A. and Cou 9. Longley, R.L. et al. (10. Woods, A. et al. (11. Bishop, A.L. and H	chman, J.R. (2003) <i>Nat Rev Mol Cell Biol</i> 4, 926-37. haupt, H.A. et al. (2009) <i>J Physiol Pharmacol</i> 60 Suppl 4, 31-8. nermann, P. and David, G. (1999) <i>FASEB J</i> 13 Suppl, S91-S100. on-Jensen, T. et al. (2010) <i>FEBS J</i> 277, 3876-89. ds, A. and Couchman, J.R. (1994) <i>Mol Biol Cell</i> 5, 183-92. ington, E.O. et al. (1997) <i>J Biol Chem</i> 272, 7390-7. E.S. et al. (1997) <i>J Biol Chem</i> 272, 8133-6. ds, A. and Couchman, J.R. (1992) <i>J Cell Sci</i> 101 (Pt 2), 277-90. gley, R.L. et al. (1999) <i>J Cell Sci</i> 112 (Pt 20), 3421-31. ods, A. et al. (2000) <i>Arch Biochem Biophys</i> 374, 66-72. hop, A.L. and Hall, A. (2000) <i>Biochem J</i> 348 Pt 2, 241-55. ler-Pinter, A. et al. (2010) <i>Cell Mol Life Sci</i> 67, 1881-94.				

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

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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