<u> 182951</u>

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Semaphorin-4D/CD100 (E8S8A) Rabbit



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

Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #Q92854	Entrez-Gene Id: 10507
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage), 150 mM NaCl, 100 μg/ ot aliquot the antibody.	ml BSA, 50% glycer/	ol and less than
Specificity/Sens	sitivity	4D/CD100 protein. This	antibody also rec he carboxy termin	Ab recognizes endogenc ognizes 25 kDa and 28 k us. This antibody cross-i	Da Semaphorin-4D	/CD100 cleavage
Source / Purific	ation	5		unizing animals with a s man Semaphorin-4D/CI		prresponding to
Background		glycoprotein belonging domain of Sema4D con domain (1). Research st is phosphorylated on so implicated in axon guid receptor, plexin-B1 (3). and is the first semaph. In the immune system, shown that Sema4D no cell survival and differe are regulated by a solu cleavage (10). Sema4D has also been overexpression in multi has been linked to its a	to the class IV fan itains a cysteine-ric cudies have sugges erine residues (2). lance within the ce Sema4D function l orin found to be e CD72 serves as a it only regulates T- ntiation (5). Many ble extracellular de implicated in onco iple types of solid bility to promote t	ulfide-linked homodimen nily of membrane bound ch semaphorin-like dom sted that the cytoplasmi Initial studies involving 3 entral nervous system th has also been extensivel xpressed on the surface low-affinity receptor for cell activation (8,9) but is of the physiologic effect omain-containing fragm ogenesis as research stu tumors (11,12). The role umor angiogenesis (13), ent of myeloid derived si	d semaphorins. The ain, an Ig-like doma c domain has a sigr Sema4D revealed th rough binding its h y characterized in tl of many types of in Sema4D (7) and res s also involved in th s of Sema4D in the ent generated thro dies have demonstr of Sema4D in onco . cell invasion (14), a	extracellular ain, and a PSI haling function as it igh affinity he immune system hmune cells (4-6). search studies have e regulation of B- immune system ugh proteolytic rated genesis, in part, and
Background Re	ferences	1. Love, C.A. et al. (2003 2. Elhabazi, A. et al. (199 3. Kolodkin, A.L. et al. (19 5. Hall, K.T. et al. (1996) 6. Furuyama, T. et al. (1996) 6. Furuyama, T. et al. (1996) 9. Jiang, X. et al. (2017) 10. Elhabazi, A. et al. (2017) 10. Elhabazi, A. et al. (2012) 11. Chen, Y. et al. (2014) 13. Basile, J.R. et al. (2011) 15. Younis, R.H. et al. (2011)	3) Nat Struct Biol 1 97) J Biol Chem 27: 1993) Cell 75, 1389 992) J Immunol 144 Proc Natl Acad Sci 996) J Biol Chem 2 (2000) Immunol 7, 1 Front Immunol 7, 1 Front Immunol 8, 001) J Immunol 16) Int J Mol Sci 13, 1 Microvasc Res 93, 06) Proc Natl Acad Cancer Sci 102, 20	0, 843-8. 2, 23515-20. -99. 3, 318-23. <i>i U S A</i> 93, 11780-5. 71, 33376-81. 13, 621-31. -8. 765. 6, 4341-7. 3264-74. 1-8. <i>Sci U S A</i> 103, 9017-22. 029-37.		

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
Cross-Reactivity Key	H: Human M: Mouse
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