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**Phospho-Scribble (Ser1220)
(D8A2) Rabbit mAb****Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M	Endogenous	240	Rabbit IgG	#Q14160	23513

Product Usage Information	Application Western Blotting	Dilution 1:1000
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	Phospho-Scribble (Ser1220) (D8A2) Rabbit mAb recognizes endogenous levels of scribble protein only when phosphorylated at Ser1220.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser1220 of human scribble protein.	
Background	<p>Scribble (Scrib) was originally identified in a genetic screen in <i>Drosophila</i> along with cell polarity determinants Discs Large (Dlg) and Lethal giant larvae (Lgl). <i>Drosophila</i> mutants homozygous for these genes share similar phenotypes, including the loss of apicobasal cell polarity and neoplastic tissue overgrowth. These phenotypic similarities suggest that these three proteins function in a common pathway important for establishing and maintaining apicobasal polarity in epithelial cells (1,2). Scribble contains many leucine-rich repeats and PDZ domains important for localizing scribble to adherens junctions and basolateral regions of mammalian epithelial cells (3). Scribble reportedly binds β-catenin, APC, E-cadherin and the E6 protein from high-risk virus type of HPV through a short motif important for E6-induced cell transformation (4-8). Overexpression of scribble inhibits transformation of rodent epithelial cells by HPV E6/7 proteins (8).</p> <p>The phosphorylation state of Scribble has been shown to be functionally important, in part by regulating subcellular localization (9). Mass spectrometry studies have identified phosphorylation at Ser1220 as a frequent modification in a variety of cell and tissue types (10-13). The functional significance of this modification remains to be elucidated.</p>	
Background References	<ol style="list-style-type: none"> 1. Bilder, D. and Perrimon, N. (2000) <i>Nature</i> 403, 676-80. 2. Bilder, D. et al. (2000) <i>Science</i> 289, 113-6. 3. Humbert, P.O. et al. (2008) <i>Oncogene</i> 27, 6888-907. 4. Sun, Y. et al. (2009) <i>Mol Biol Cell</i> 20, 3390-400. 5. Qin, Y. et al. (2005) <i>J Cell Biol</i> 171, 1061-71. 6. Navarro, C. et al. (2005) <i>Oncogene</i> 24, 4330-9. 7. Takizawa, S. et al. (2006) <i>Genes Cells</i> 11, 453-64. 8. Nguyen, M.L. et al. (2003) <i>J Virol</i> 77, 6957-64. 9. Yoshihara, K. et al. (2011) <i>Exp Cell Res</i> 317, 413-22. 10. Olsen, J.V. et al. (2010) <i>Sci Signal</i> 3, ra3. 11. Han, G. et al. (2010) <i>Electrophoresis</i> 31, 1080-9. 12. Brill, L.M. et al. (2009) <i>Cell Stem Cell</i> 5, 204-13. 13. Wang, Y.T. et al. (2010) <i>J Proteome Res</i> 9, 5582-97. 	

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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