

Phospho-Scribble (Ser1220) (D8A2) Rabbit mAb

✓ 100 µl
(10 western blots)



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Entrez Gene ID #23513
UniProt ID #Q14160

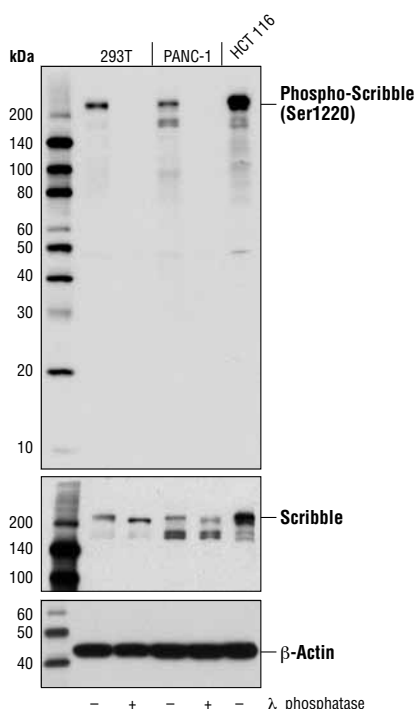
Applications W Endogenous	Species Cross-Reactivity* H, M	Molecular Wt. 240 kDa	Isotype Rabbit IgG**
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Background: Scribble (Scrib) was originally identified in a genetic screen in *Drosophila* along with cell polarity determinants Discs Large (Dlg) and Lethal giant larvae (Lgl). *Drosophila* 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).

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.

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.



Western blot analysis of extracts from the indicated cells, untreated (-) or λ phosphatase-treated (+), using Phospho-Scribble (Ser1220) (D8A2) Rabbit mAb (upper), Scribble Antibody #4475 (middle), and β -Actin (D6A8) Rabbit mAb #8457 (lower).

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.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000

For product specific protocols please see the web page for this product at www.cellsignaling.com.

Please visit www.cellsignaling.com for a complete listing of recommended complementary products.

Background References:

- (1) Bilder, D. and Perrimon, N. (2000) *Nature* 403, 676-80.
- (2) Bilder, D. et al. (2000) *Science* 289, 113-6.
- (3) Humbert, P.O. et al. (2008) *Oncogene* 27, 6888-907.
- (4) Sun, Y. et al. (2009) *Mol Biol Cell* 20, 3390-400.
- (5) Qin, Y. et al. (2005) *J Cell Biol* 171, 1061-71.
- (6) Navarro, C. et al. (2005) *Oncogene* 24, 4330-9.
- (7) Takizawa, S. et al. (2006) *Genes Cells* 11, 453-64.
- (8) Nguyen, M.L. et al. (2003) *J Virol* 77, 6957-64.
- (9) Yoshihara, K. et al. (2011) *Exp Cell Res* 317, 413-22.
- (10) Olsen, J.V. et al. (2010) *Sci Signal* 3, ra3.
- (11) Han, G. et al. (2010) *Electrophoresis* 31, 1080-9.
- (12) Brill, L.M. et al. (2009) *Cell Stem Cell* 5, 204-13.
- (13) Wang, Y.T. et al. (2010) *J Proteome Res* 9, 5582-97.

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

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.