Revision 1

#13301 Store at -20C

SAV1 (D6M6X) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H M	Endogenous	45	Rabbit IgG	#Q9H4B6	60485

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50
Immunofluorescence (Immunocytochemistry)	1:400

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

SAV1 (D6M6X) Rabbit mAb recognizes endogenous levels of total SAV1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human SAV1 protein.

Background

Salvador homolog (SAV1), originally named WW45, was first identified as a 45 kDa protein containing a pair of WW domains and a coiled-coil region (1). SAV1 was subsequently shown to function as a scaffold protein, in a protein complex that includes the kinases MST2 and LATS1, and the transcriptional co-activator YAP (2). This protein complex comprises the core components of the Hippo signaling pathway, which regulates important cellular functions, including contact inhibition and apoptosis, that function to regulate tissue growth and organ size (3,4). A genetic screen in *Drosophila* identified a role for SAV1 in cell cycle regulation and apoptosis (5), while embryonic mice lacking Sav1 displayed hyperplastic growth and epithelial differentiation effects (6). These findings, together with the observation that SAV1 is mutated a number of human cancer cell lines, suggest that SAV1 functions as a tumor suppressor in the Hippo signaling pathway (5, 7).

Background References

1. Valverde, P. (2000) *Biochem Biophys Res Commun* 276, 990-8.
2. Oka, T. et al. (2008) *J Biol Chem* 283, 27534-46.
3. Guo, C. et al. (2007) *Curr Biol* 17, 700-5.
4. Zeng, Q. and Hong, W. (2008) *Cancer Cell* 13, 188-92.
5. Tapon, N. et al. (2002) *Cell* 110, 467-78.
6. Lee, J.H. et al. (2008) *EMBO J* 27, 1231-42.
7. Donninger, H. et al. (2011) *J Biol Chem* 286, 18483-91.

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

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

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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