

#3507 Store at -20C

## Sav1 Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H R Mk	Endogenous	45	Rabbit	#Q9H4B6	60485

## Product Usage Information

## Application

Western Blotting

## Dilution

1:1000

Immunoprecipitation

1:50

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

## Specificity / Sensitivity

Sav1 Antibody detects endogenous level of total Sav1 protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala100 of human Sav1. Antibodies are purified by protein A and peptide affinity chromatography.

## 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

## 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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