

# Product Datasheet

## SAV1 Antibody (3B2) - Azide and BSA Free H00060485-M02

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00060485-M02**

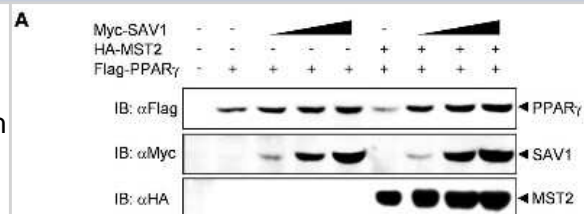
SAV1 Antibody (3B2) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3B2
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Host	Mouse
Gene ID	60485
Gene Symbol	SAV1
Species	Human, Mouse, Yeast
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 26913567).
Specificity/Sensitivity	SAV1 - salvador homolog 1 (Drosophila)
Immunogen	SAV1 (NP_068590, 300 a.a. ~ 383 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. HTAEIPDWLQVYARAPVKYDHILKWELFQLADLDYQGMLKLLFMKELEQIVKM YEAYRQALLTELENRKQRQQWYAQQHGKNF
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, ELISA 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:2000, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin
Application Notes	Antibody reactive against cell lysate and recombinant protein for Western Blot. Has also been used for immunofluorescence and ELISA. Use in Immunohistochemistry-paraffin reported in scientific literature (PMID: 26913567).

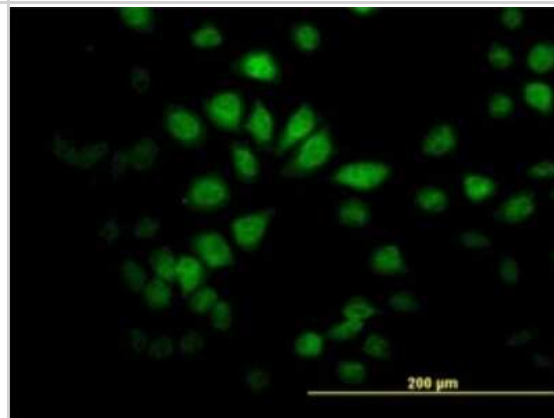


## Images

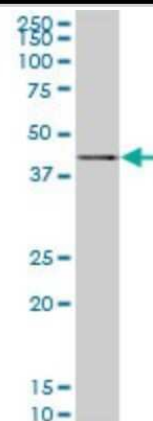
Western Blot: SAV1 Antibody (3B2) [H00060485-M02] - MST2 and SAV1 increase the levels of PPAR-gamma by increasing its protein stability. Increasing amounts (0.5, 1, 3 ug) of Myc-SAV1 were co-expressed with Flag-PPAR gamma and/or HA-MST2 in 293 cells. At 48 h after transfection, cell lysates were immunoblotted with the indicated antibodies. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0030983>), licensed under a CC-BY license.



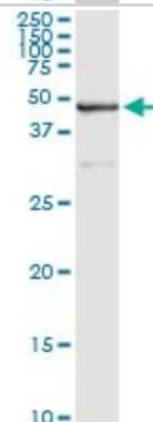
Immunocytochemistry/Immunofluorescence: SAV1 Antibody (3B2) [H00060485-M02] - Analysis of monoclonal antibody to SAV1 on HeLa cell. Antibody concentration 60 ug/ml.



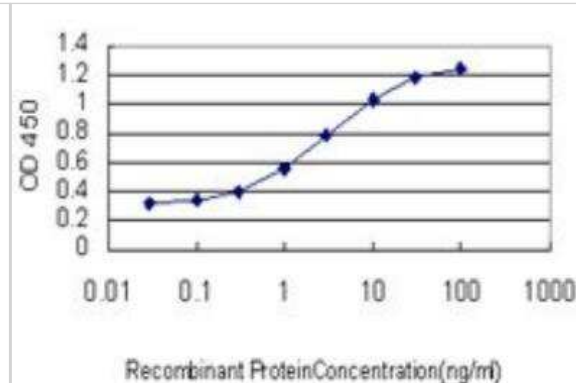
Western Blot: SAV1 Antibody (3B2) [H00060485-M02] - SAV1 monoclonal antibody (M02), clone 3B2. Analysis of SAV1 expression in HepG2.



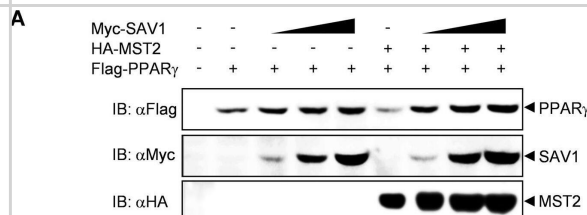
Immunoprecipitation: SAV1 Antibody (3B2) [H00060485-M02] - Analysis of SAV1 transfected lysate using anti-SAV1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with SAV1 MaxPab rabbit polyclonal antibody.



ELISA: SAV1 Antibody (3B2) [H00060485-M02] - Detection limit for recombinant GST tagged SAV1 is approximately 0.1ng/ml as a capture antibody.



Western Blot: SAV1 Antibody (3B2) [H00060485-M02] - MST2 & SAV1 increase the levels of PPAR $\gamma$  by increasing its protein stability. (A) Increasing amounts (0.5, 1, 3  $\mu$ g) of Myc-SAV1 were co-expressed with Flag-PPAR $\gamma$  and/or HA-MST2 in 293 cells. At 48 h after transfection, cell lysates were immunoblotted with the indicated antibodies. (B) Flag-tagged PPAR $\gamma$  or PPAR $\gamma$ (128–505) was co-expressed with HA-MST2, HA-MST2-KD (inactive mutant), Myc-SAV1, and/or Myc-SAV1(1–201) in 293 cells as indicated. Cell lysates were prepared at various times after treatment with 40  $\mu$ g/mL cycloheximide & then immunoblotted with an anti-Flag antibody. The PPAR $\gamma$  protein expression was quantified & the half-life of PPAR $\gamma$  protein was calculated. Expression of GAPDH was detected as a loading control. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/22292086>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Ji S, Liu Q, Zhang S et al. FGF15 Activates Hippo Signaling to Suppress Bile Acid Metabolism and Liver Tumorigenesis. *Dev Cell*. 2019-02-07 [PMID: 30745141]

Park SH, Park J, Lee Y, and Lee YH Mammalian Hippo kinase pathway is downregulated by BCL-2 via protein degradation. *Biochem Biophys Res Commun*. 2019-03-11 [PMID: 30867124]

Schutte U, Bisht S, Heukamp LC et al. Hippo signaling mediates proliferation, invasiveness and metastatic potential of clear cell renal cell carcinoma. *Translational Oncology Volume 7*. 2014-04-01 [PMID: 24913676]

Kai T, Tsukamoto Y, Hijiya N et al. Kidney-specific knockout of Sav1 in the mouse promotes hyper-proliferation of renal tubular epithelium through suppression of the Hippo pathway *J. Pathol*. 2016-02-24 [PMID: 26913567] (IHC-P, Mouse)

Murakami H, Mizuno T, Taniguchi T et al. LATS2 Is a Tumor Suppressor Gene of Malignant Mesothelioma. *Cancer Res*. 2011-01-18 [PMID: 21245096]

Park BH, Kim DS, Won GW et al. Mammalian Ste20-Like Kinase and SAV1 Promote 3T3-L1 Adipocyte Differentiation by Activation of PPAR $\gamma$ . *PLoS One*. 2012-01-26 [PMID: 22292086]

Li X, Luo X, Li Z et al. Screening of binding proteins that interact with human Salvador 1 in a human fetal liver cDNA library by the yeast two-hybrid system. *Mol Biol Rep*. 2012-05-09 [PMID: 22570112]

Yin F, Yu J, Zheng Y et al. Spatial Organization of Hippo Signaling at the Plasma Membrane Mediated by the Tumor Suppressor Merlin/NF2. *Cell*. 2013-09-12 [PMID: 24012335] (WB, Human)

Mardin BR, Lange C, Baxter JE et al. Components of the Hippo pathway cooperate with Nek2 kinase to regulate centrosome disjunction. *Nat Cell Biol* 12(12):1166-76. 2010-12-01 [PMID: 21076410]



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to H00060485-M02**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP2-13282PEP	SAV1 Recombinant Protein Antigen

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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