SANTA CRUZ BIOTECHNOLOGY, INC.

# NPWBP (F-1): sc-393556

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*The Power to Question*

## BACKGROUND

NPWBP (Npw38-binding protein), also known as WW domain-binding protein 11 and SH3 domain-binding protein SNP70, is a 641 amino acid protein that contains two proline-rich regions that bind to the WW domain of PQBP-1, a transcription repressor that associates with polyglutamine tract-containing transcription regulators. Highly expressed in kidney, pancreas, brain, placenta, heart and skeletal muscle, NPWBP is predominantly located within the nucleus with granular heterogenous distribution. However, during mitosis NPWBP is distributed in the cytoplasm. In the nucleus, NPWBP co-localizes with two mRNA splicing factors, SC35 and U2 snRNP B, which suggests that it plays a role in pre-mRNA processing.

## REFERENCES


1. Komuro, A., et al. 1999. Association of two nuclear proteins, Npw38 and NPWBP, via the interaction between the WW domain and a novel proline-rich motif containing glycine and arginine. J. Biol. Chem. 274: 36513-36519.
2. Komuro, A., et al. 1999. Npw38, a novel nuclear protein possessing a WW domain capable of activating basal transcription. Nucleic Acids Res. 27: 1957-1965.
3. Sudol, M., et al. 2001. Functions of WW domains in the nucleus. FEBS Lett. 490: 190-195.
4. Craggs, G., et al. 2001. A nuclear SH3 domain-binding protein that colocalizes with mRNA splicing factors and intermediate filament-containing perinuclear networks. J. Biol. Chem. 276: 30552-30560.


## CHROMOSOMAL LOCATION

Genetic locus: WBP11 (human) mapping to 12p12.3; Wbp11 (mouse) mapping to 6 G1.

## SOURCE

NPWBP (F-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 294-319 within an internal region of NPWBP of human origin.

## PRODUCT

Each vial contains 200 µg $IgG_{2a}$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

NPWBP (F-1) is available conjugated to agarose (sc-393556 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-393556 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393556 PE), fluorescein (sc-393556 FITC), Alexa Fluor® 488 (sc-393556 AF488), Alexa Fluor® 546 (sc-393556 AF546), Alexa Fluor® 594 (sc-393556 AF594) or Alexa Fluor® 647 (sc-393556 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393556 AF680) or Alexa Fluor® 790 (sc-393556 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-393556 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).



## APPLICATIONS

NPWBP (F-1) is recommended for detection of NPWBP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NPWBP siRNA (h): sc-95727, NPWBP siRNA (m): sc-150059, NPWBP shRNA Plasmid (h): sc-95727-SH, NPWBP shRNA Plasmid (m): sc-150059-SH, NPWBP shRNA (h) Lentiviral Particles: sc-95727-V and NPWBP shRNA (m) Lentiviral Particles: sc-150059-V.

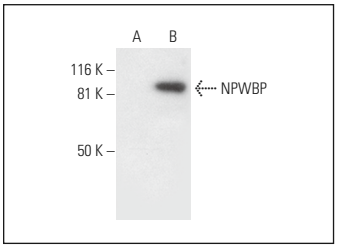
Molecular Weight of NPWBP: 70 kDa.

Positive Controls: NPWBP (m): 293T Lysate: sc-122117.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA




NPWBP (F-1): sc-393556. Western blot analysis of NPWBP expression in non-transfected: sc-117752 (**A**) and mouse NPWBP transfected: sc-122117 (**B**) 293T whole cell lysates.

## STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.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