SANTA CRUZ BIOTECHNOLOGY, INC.

WBP2 (D-12): sc-514247

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

WW domain-binding protein 2 (WBP2) is a 261 amino acid protein expressed in most tissues. The WW domain is composed of 38 to 40 semi-conserved amino acids and is shared by various groups of proteins, including structural, regulatory and signaling proteins. The domain mediates protein-protein interactions through the binding of polyproline ligands. WBP2 binds to the WW domain of Yes-associated protein (YAP), WW domain containing E3 ubiquitin protein ligase 1 (AIP5) and WW domain containing E3 ubiquitin protein ligase 2 (AIP2). The gene encoding WBP2 is located on human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes, some of which are involved in tumor suppression and in the pathogenesis of Li-Fraumeni syndrome, early onset breast cancer and a predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

REFERENCES

1. Chen, H.I. and Sudol, M. 1995. The WW domain of Yes-associated protein binds a proline-rich ligand that differs from the consensus established for Src homology 3-binding modules. Proc. Natl. Acad. Sci. USA 92: 7819-7823.
2. Pirozzi, G., et al. 1997. Identification of novel human WW domain-containing proteins by cloning of ligand targets. J. Biol. Chem. 272: 14611-14616.
3. Chen, H.I., et al. 1997. Characterization of the WW domain of human Yes-associated protein and its polyproline-containing ligands. J. Biol. Chem. 272: 17070-17077.

CHROMOSOMAL LOCATION

Genetic locus: WBP2 (human) mapping to 17q25.1; Wbp2 (mouse) mapping to 11 E2.

SOURCE

WBP2 (D-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 129-150 within an internal region of WBP2 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 lambda light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

WBP2 (D-12) is available conjugated to agarose (sc-514247 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-514247 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514247 PE), fluorescein (sc-514247 FITC), Alexa Fluor® 488 (sc-514247 AF488), Alexa Fluor® 546 (sc-514247 AF546), Alexa Fluor® 594 (sc-514247 AF594) or Alexa Fluor® 647 (sc-514247 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514247 AF680) or Alexa Fluor® 790 (sc-514247 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-514247 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

RSEARCH USE

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

APPLICATIONS

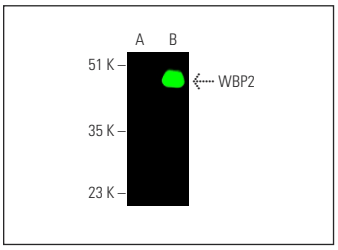
WBP2 (D-12) is recommended for detection of WBP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for WBP2 siRNA (h): sc-93955, WBP2 siRNA (m): sc-155243, WBP2 shRNA Plasmid (h): sc-93955-SH, WBP2 shRNA Plasmid (m): sc-155243-SH, WBP2 shRNA (h) Lentiviral Particles: sc-93955-V and WBP2 shRNA (m) Lentiviral Particles: sc-155243-V.

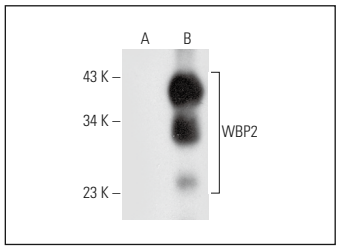
Molecular Weight of WBP2: 28 kDa.

Positive Controls: WBP2 (h): 293 Lysate: sc-111002.

DATA



WBP2 (D-12): sc-514247. Near-infrared western blot analysis of WBP2 expression in non-transfected: sc-110760 (**A**) and human WBP2 transfected: sc-111002 (**B**) 293 whole cell lysates. Detection reagent used: m-IgGλ BP-CFL 680: sc-516194.



WBP2 (D-12): sc-514247. Western blot analysis of WBP2 expression in non-transfected: sc-110760 (**A**) and human WBP2 transfected: sc-111002 (**B**) 293 whole cell lysates.

SELECT PRODUCT CITATIONS

1. Phan, Q.T., et al. 2021. The globular C1q receptor is required for epidermal growth factor receptor signaling during *Candida albicans* infection. mBio 12: e0271621.
2. Deng, Z., et al. 2023. WBP2 restrains the lysosomal degradation of GPX4 to inhibit ferroptosis in cisplatin-induced acute kidney injury. Redox Biol. 65: 102826.

STORAGE

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

PROTOCOLS

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