HBXIP (H-5): sc-373980

BACKGROUND
HBXIP (hepatitis B virus X-interacting protein), also known as HBV X-interacting protein or HBX-interacting protein, was originally identified by its ability to form a complex with the C-terminus of hepatitis B virus X (HBX) protein. HBXIP negatively regulates the activity of HBX and alters the replicative life cycle of the virus. HBXIP is an evolutionarily conserved protein. It contains a leucine zipper motif and two consensus phosphorylation sites. HBXIP also forms complexes with survivin (an overexpressed protein in most human cancers) and is necessary for allowing survivin to bind and inhibit the activation of pro-caspase-9, suggesting that HBXIP acts as an anti-apoptotic cofactor of survivin. In addition, HBXIP is involved in bipolar spindle formation and regulates centrosome dynamics and cytokinesis in cells, possibly through an interaction with Dynein light chain. The overexpression of HBXIP promotes proliferation in a variety of cell lines.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: LAMTOR5 (human) mapping to 1p13.3; Lamtor5 (mouse) mapping to 3 F2.3.

SOURCE
HBXIP (H-5) is a mouse monoclonal antibody raised against amino acids 1-91 representing full length HBXIP of human origin.

PRODUCT
Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.
HBXIP (H-5) is available conjugated to agarose (sc-373980 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-373980 HRP), 200 µg/ml, for WB, IHC(HP) and ELISA; to either phycoerythrin (sc-373980 PE), fluorescein (sc-373980 FITC), Alexa Fluor® 488 (sc-373980 AF488), Alexa Fluor® 546 (sc-373980 AF546), Alexa Fluor® 594 (sc-373980 AF594) or Alexa Fluor® 647 (sc-373980 AF647), 200 µg/ml, for WB (RGB), IF, IHC(HP) and FCM; and to either Alexa Fluor® 680 (sc-373980 AF680) or Alexa Fluor® 790 (sc-373980 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.
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STORAGE
Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS
HBXIP (H-5) is recommended for detection of HBX-interacting protein 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

HBXIP (H-5) is also recommended for detection of HBX-interacting protein in additional species, including equine, bovine and porcine.
Suitable for use as control antibody for HBX siRNA (h): sc-72289, HBX siRNA (m): sc-77371, HBXIP shRNA Plasmid (h): sc-72289-SH, HBXIP shRNA Plasmid (m): sc-77371-SH, HBXIP shRNA (h) Lentiviral Particles: sc-72289-V and HBXIP shRNA (m) Lentiviral Particles: sc-77371-V.

Molecular Weight of HBXIP: 18 kDa.
Positive Controls: HBXIP (h): 293T Lysate: sc-116745, MCF7 whole cell lysate: sc-2206 or Jurkat whole cell lysate: sc-2204.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG 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 Lumino Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA

HBXIP (H-5): sc-373980. Western blot analysis of HBXIP expression in non-transfected: sc-117752(A) and human HBXIP transfected: sc-116745(B) 293T whole cell lysates.

HBXIP (H-5): sc-373980. Immunoperoxidase staining of formalin fixed, paraffin-embedded human bone marrow tissue showing nuclear staining of hematopoietic cells.

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