SANTA CRUZ BIOTECHNOLOGY, INC.

HA-probe (F-7): sc-7392

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Plasmid vectors for the expression of coding regions of eukaryotic genes in bacterial, insect and mammalian hosts are in common usage; such expression vectors are frequently used to encode hybrid fusion proteins consisting of a eukaryotic target protein and a specialized region designed to aid in the purification and visualization of the target protein. For example, the pCDM8 expression vector and derivatives thereof encode fusions between the target protein and an eleven amino acid peptide derived from the influenza protein hemagglutinin (HA). The HA epitope tag is useful in Western blotting and immunohistochemical localization of expressed fusion proteins when examined with antibodies raised specifically against the HA-epitope tag.

SOURCE

HA-probe (F-7) is a mouse monoclonal antibody raised against an epitope mapping within an internal region of the influenza hemagglutinin (HA) protein.

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. Also available as TransCruz reagent for ChIP application, sc-7392 X, 200 µg/0.1 ml.

HA-probe (F-7) is available conjugated to agarose (sc-7392 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-7392 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-7392 PE), fluorescein (sc-7392 FITC), Alexa Fluor® 488 (sc-7392 AF488), Alexa Fluor® 546 (sc-7392 AF546), Alexa Fluor® 594 (sc-7392 AF594) or Alexa Fluor® 647 (sc-7392 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-7392 AF680) or Alexa Fluor® 790 (sc-7392 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, HA-probe (F-7) is available conjugated to biotin (sc-7392 B), 200 µg/ml, for WB, IHC(P) and ELISA; and to either TRITC (sc-7392 TRITC, 200 µg/ml), PerCP (sc-7392 PerCP), PerCP-Cy5.5 (sc-7392 PCPC5) or Alexa Fluor® 405 (sc-7392 AF405), 100 tests in 2 ml, for IF, IHC(P) and FCM.

Blocking peptide available for competition studies, sc-7392 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

APPLICATIONS

HA-probe (F-7) is recommended for detection of proteins containing the HA tag by Western Blotting (starting dilution 1:200, 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), flow cytometry (1 µg per 1 x 10^6 cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

HA-probe (F-7) X TransCruz antibody is recommended for ChIP assays.

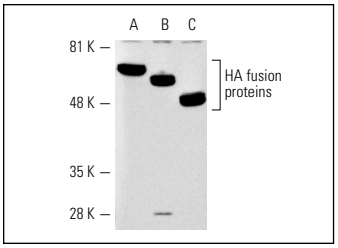
STORAGE

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

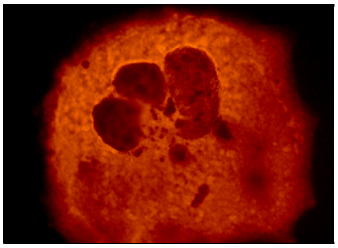
RESEARCH USE

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

DATA



HA-probe (F-7): sc-7392. Western blot analysis of HA-tagged fusion proteins showing N-terminal HA-tagged JNK2 (**A**) and JNK1 (**C**) and C-terminal HA-tagged Daxx (**B**).



HA-probe (F-7): sc-7392. Immunofluorescence staining of methanol-fixed Cos cells transfected with HA fusion protein showing cytoplasmic staining.

SELECT PRODUCT CITATIONS

1. Schmidtke, G., et al. 1999. How an inhibitor of the HIV-I protease modulates proteasome activity. J. Biol. Chem. 274: 35734-35740.
2. Zhang, Y., et al. 2017. RIP1 autophosphorylation is promoted by mitochondrial Ros and is essential for RIP3 recruitment into necrosome. Nat. Commun. 8: 14329.
3. Zhao, D., et al. 2017. Synthetic essentiality of chromatin remodelling factor CHD1 in PTEN-deficient cancer. Nature 542: 484-488.
4. Cheng, J., et al. 2017. Maternal embryonic leucine zipper kinase inhibits epithelial-mesenchymal transition by regulating transforming growth factor-β signaling. Oncol. Lett. 13: 4794-4798.
5. Su, H., et al. 2017. VPS34 acetylation controls its lipid kinase activity and the initiation of canonical and non-canonical autophagy. Mol. Cell 67: 907-921.
6. Lee, E.W., et al. 2017. Phosphorylation of p53 at threonine 155 is required for Jab1-mediated nuclear export of p53. BMB Rep. 50: 373-378.
7. Jeong, K., et al. 2017. CNOT2 promotes degradation of p62/SQSTM1 as a negative regulator in ATG5 dependent autophagy. Oncotarget 8: 46034-46046.
8. Twardziok, M., et al. 2017. Transcriptomic and proteomic insight into the effects of a defined European mistletoe extract in Ewing sarcoma cells reveals cellular stress responses. BMC Complement. Altern. Med. 17: 237.
9. Park, J.Y., et al. 2017. Herbal formula SC-E1 suppresses lipopolysaccharide-stimulated inflammatory responses through activation of Nrf2/HO-1 signaling pathway in RAW 264.7 macrophages. BMC Complement. Altern. Med. 17: 374.

PROTOCOLS

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