SANTA CRUZ BIOTECHNOLOGY, INC.

HA-Tag (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 11 amino acid peptide derived from the influenza protein hemagglutinin (HA). The HA epitope tag, which is detected using an HA tag antibody 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-Tag (F-7) is a mouse monoclonal antibody raised against 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-Tag (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-Tag (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) or Alexa Fluor® 405 (sc-7392 AF405, 200 µg/ml), 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).

APPLICATIONS

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

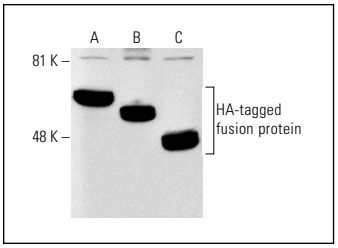
STORAGE

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

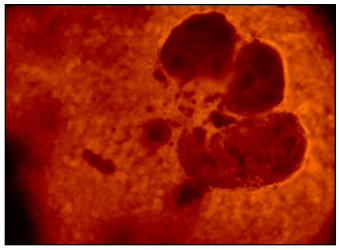
RESEARCH USE

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

DATA



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

SELECT PRODUCT CITATIONS

1. Nemoto, S., et al. 1998. Coordinate regulation of IκB kinases by mitogen-activated protein kinase kinase kinase 1 and NFκB-inducing kinase. Mol. Cell. Biol. 18: 7336-7343.
2. Rai, D.K., et al. 2015. Analysis of the interaction between host factor Sam68 and viral elements during foot-and-mouth disease virus infections. Virol. J. 12: 224.
3. Lee, H.T., et al. 2016. Role of IGF1R+ MSCs in modulating neuroplasticity via CXCR4 cross-interaction. Sci. Rep. 6: 32595.
4. Zhang, Y., et al. 2017. RIP1 autophosphorylation is promoted by mitochondrial Ros and is essential for RIP3 recruitment into necrosome. Nat. Commun. 8: 14329.
5. Koh, A., et al. 2018. Microbially produced imidazole propionate impairs Insulin signaling through mTORC1. Cell 175: 947-961.e17.
6. Gwon, D., et al. 2019. c-Cbl acts as an E3 ligase against DDA3 for spindle dynamics and centriole duplication during mitosis. Mol. Cells 42: 840-849.
7. Tu, P.S., et al. 2020. The extracellular signal-regulated kinase 1/2 modulates the intracellular localization of DNA methyltransferase 3A to regulate erythrocytic differentiation. Am. J. Transl. Res. 12: 1016-1030.
8. Munzel, L., et al. 2021. Atg21 organizes Atg8 lipidation at the contact of the vacuole with the phagophore. Autophagy 17: 1458-1478.
9. Muñoz, S., et al. 2022. Functional crosstalk between the cohesin loader and chromatin remodelers. Nat. Commun. 13: 7698.
10. Lui, W.Y., et al. 2023. Suppression of cGAS- and RIG-I-mediated innate immune signaling by Epstein-Barr virus deubiquitinase BPLF1. PLoS Pathog. 19: e1011186.

PROTOCOLS

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