SANTA CRUZ BIOTECHNOLOGY, INC.

HA-probe (Y-11): sc-805

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 (Y-11) is available as either rabbit (sc-805) or goat (sc-805-G) affinity purified polyclonal antibody raised against a peptide mapping within an internal region of the influenza hemagglutinin (HA) protein.

PRODUCT

Each vial contains either 100 µg (sc-805) or 200 µg (sc-805-G) IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for ChIP application, sc-805 X, 100 µg/0.1 ml.

HA-probe (Y-11) is available conjugated to agarose (sc-805 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-805 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-805 PE, 200 µg/ml), fluorescein (sc-805 FITC, 200 µg/ml), Alexa Fluor® 488 (sc-805 AF488, 200 µg/ml) or Alexa Fluor® 647 (sc-805 AF647, 200 µg/ml), for IF, IHC(P) and FCM.

In addition, HA-probe (Y-11) is available conjugated to biotin (sc-805 B), 200 µg/ml, for WB, IHC(P) and ELISA; and to either TRITC (sc-805 TRITC, 200 µg/ml), PerCP (sc-805 PerCP), PerCP-Cy5.5 (sc-805 PCPC5) or Alexa Fluor® 405 (sc-805 AF405), 100 tests in 2 ml, for IF, IHC(P) and FCM.

Blocking peptide available for competition studies, sc-805 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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

APPLICATIONS

HA-probe (Y-11) 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 (Y-11) X TransCruz antibody is recommended for ChIP assays.

RESEARCH USE

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

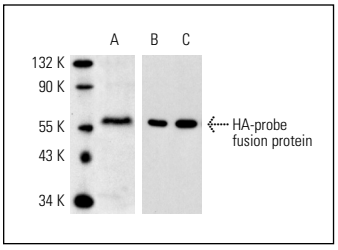
PROTOCOLS

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

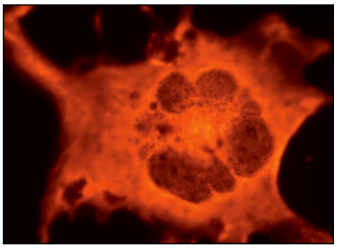
STORAGE

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

DATA



Western blot analysis of HA epitope-tagged JNK2 (1-424): sc-4062 WB. Antibodies tested include HA-probe (Y-11)-G: sc-805-G (**A**) and HA-probe (Y-11): sc-805 (**B,C**).



HA-probe (Y-11): sc-805. Immunofluorescence staining of methanol-fixed COS cells transfected with HA fusion protein showing cytoplasmic staining.

SELECT PRODUCT CITATIONS

1. Kobayashi, M., et al. 1999. Identification of a photoreceptor cell-specific nuclear receptor. Proc. Natl. Acad. Sci. USA 96: 4814-4819.
2. Fernandez, N., et al. 2011. Roles of phosphorylation-dependent and -independent mechanisms in the regulation of histamine H2 receptor by G protein-coupled receptor kinase 2. J. Biol. Chem. 286: 28697-28706.
3. Lin S.Y., et al. 2012. GSK3-TIP60-ULK1 signaling pathway links growth factor deprivation to autophagy. Science 336: 477-481.
4. Zhu, Y.B., et al. 2012. PLD1 negatively regulates dendritic branching. J. Neurosci. 32: 7960-7969.
5. Mersman, D.P., et al. 2012. Charge-based interaction conserved within histone H3 lysine 4 (H3K4) methyltransferase complexes is needed for protein stability, histone methylation, and gene expression. J. Biol. Chem. 287: 2652-2665.
6. Kung, M.L., et al. 2012. Hepatoma-derived growth factor stimulates podosome rosettes formation in NIH/3T3 cells through the activation of phosphatidylinositol 3-kinase/Akt pathway. Biochem. Biophys. Res. Commun. 425: 169-176.
7. Inomata, M., et al. 2012. Regulation of Toll-like receptor signaling by NDP52-mediated selective autophagy is normally inactivated by A20. Cell. Mol. Life Sci. 69: 963-979.

MONOS Satisfaction Guaranteed

Try **HA-probe (F-7): sc-7392** or **HA-probe (4C12): sc-57594**, our highly recommended monoclonal alternatives to HA-probe (Y-11). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **HA-probe (F-7): sc-7392**.