

# HA-Tag (12CA5): sc-57592

## 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 is useful in Western blotting and immunohistochemical localization of expressed fusion proteins when examined with antibodies raised specifically against the HA-epitope tag.

## REFERENCES

- Maniatis, T., et al. 1982. *Molecular Cloning*. Cold Spring Harbor, New York: Cold Spring Laboratory Press.
- Hopp, T.P., et al. 1988. A short polypeptide marker sequence useful for recombinant protein identification and purification. *Nat. Biotechnol.* 6: 1204-1210.
- Smith, D.B. and Johnson, K.S. 1988. Single-step purification of polypeptides expressed in *Escherichia coli* as fusions with glutathione S-transferase. *Gene* 67: 31-40.
- Kieffer, B.L. 1991. Optimised cDNA size selection and cloning procedure for the construction of representative plasmid cDNA libraries. *Gene* 109: 115-119.
- Chen, Y.T., et al. 1993. Expression and localization of two low molecular weight GTP-binding proteins, Rab8 and Rab10, by epitope tag. *Proc. Natl. Acad. Sci. USA* 90: 6508-6512.

## SOURCE

HA-Tag (12CA5) is a mouse monoclonal antibody raised against recombinant influenza virus hemagglutinin.

## PRODUCT

Each vial contains 100 µg IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

HA-Tag (12CA5) is recommended for detection of proteins containing the HA tag by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

## STORAGE

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

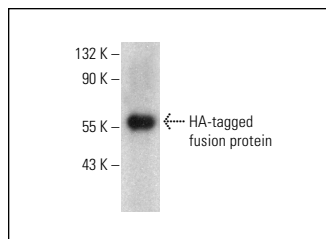
## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

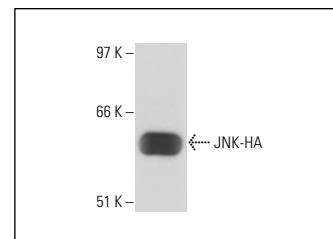
## RESEARCH USE

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

## DATA



HA-Tag (12CA5): sc-57592. Western blot analysis of HA-tagged recombinant JNK fusion protein.



HA-Tag (12CA5): sc-57592. Western blot analysis of HA-tagged human recombinant JNK.

## SELECT PRODUCT CITATIONS

- Anderson, M.E., et al. 1997. Reciprocal interference between the sequence-specific core and nonspecific C-terminal DNA binding domains of p53: implications for regulation. *Mol. Cell. Biol.* 17: 6255-6264.
- Postel, R., et al. 2011. Nesprin-3 augments peripheral nuclear localization of intermediate filaments in zebrafish. *J. Cell Sci.* 124: 755-764.
- Puts, C.F., et al. 2012. Mapping functional interactions in a heterodimeric phospholipid pump. *J. Biol. Chem.* 287: 30529-30540.
- Russo, A., et al. 2013. Human rpl3 induces G<sub>1</sub>/S arrest or apoptosis by modulating p21<sup>waf1/cip1</sup> levels in a p53-independent manner. *Cell Cycle* 12: 76-87.
- Takeda, AN., et al. 2014. Ubiquitin-dependent regulation of MEKK2/3-MEK5-ERK5 signaling module by XIAP and cIAP1. *EMBO J.* 33: 1784-801.
- Marfil, V., et al. 2015. Growth-promoting and tumorigenic activity of c-Myc is suppressed by Hhex. *Oncogene* 34: 3011-3022.
- Han, Y., et al. 2016. Osterix represses adipogenesis by negatively regulating PPAR $\gamma$  transcriptional activity. *Sci. Rep.* 6: 35655.
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- Adams, B.M., et al. 2019. Proper secretion of the serpin antithrombin relies strictly on thiol-dependent quality control. *J. Biol. Chem.* 294: 18992-19011.
- Mooser, C., et al. 2020. Treacle controls the nucleolar response to rDNA breaks via TOPBP1 recruitment and ATR activation. *Nat. Commun.* 11: 123.



See **HA-Tag (F-7): sc-7392** for HA-Tag antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.