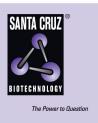
## SANTA CRUZ BIOTECHNOLOGY, INC.

# Omni-probe (M-21): sc-499



## BACKGROUND

Plasmid vectors for the expression of coding regions of eukaryotic genes in *E. coli*, insect and mammalian hosts are in common usage. Such expression vectors often encode hybrid fusion proteins containing part prokaryotic and part eukaryotic specified proteins. For instance, the prokaryotic pRSET A, B, C and pTrc His A, B, C; baculovirus pBlue Bac His A, B, C and mammalian pEBV His A, B, C expression vectors encode fusion proteins containing polyhistidine sequences fused to insertion cDNA sequences allowing for rapid purification on nickel-charged agarose resin. Omni-probe antibodies directed to specific vector sequences mapping between the polyhistidine tag and cDNA insert sequences provide a convenient and rapid means for identification of expressed fusion proteins in different hosts.

#### REFERENCES

- 1. Maniatis, T., et al. 1982. Molecular Cloning. Cold Spring Harbor, NY: Cold Spring Harbor Laboratory.
- Nemenoff, R.A., et al. 1993. Phosphorylation and activation of a high molecular weight form of phospholipase A<sub>2</sub> by p42 microtubule-associated protein 2 kinase and protein kinase C. J. Biol. Chem. 268: 1960-1964.
- Bowman, E.P., et al. 1993. Neutrophil phospholipase D is activated by a membrane-associated Rho family small molecular weight-GTP binding protein. J. Biol. Chem. 268: 21509-21512.

#### SOURCE

Omni-probe (M-21) is available as either rabbit (sc-499) or goat (sc-499-G) affinity purified polyclonal antibody raised against a peptide mapping between the (His)6 and polylinker sequence of Xpress series of prokaryotic and eukaryotic exspression vectors of origin.

## PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-499 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

Omni-probe (M-21) is recommended for detection of fusion proteins endoded by the prokaryotic pRSET A, B, C and pTrc His A, B, C; baculovirus pBlue Bac His A, B, C and mammalian pEBV His A, B, C expression vectors of N/A origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)].

#### **STORAGE**

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

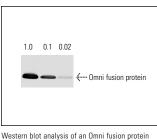
## PROTOCOLS

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

## **RESEARCH USE**

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

#### DATA



using Omni-probe (M-21): sc-499 antibody at IgG concentrations of 1.0 to 0.02 µg/ml.

#### SELECT PRODUCT CITATIONS

- Nern, A., et al. 1998. A GTP-exchange factor required for cell orientation. Nature 391: 195-198.
- Tanaka, T., et al. 2005. SLIM is a nuclear ubiquitin E3 ligase that negatively regulates Stat signaling. Immunity 22: 729-736.
- Inoue, Y., et al. 2007. Phosphorylation of pRB at Ser612 by Chk1/2 leads to a complex between pRB and E2F-1 after DNA damage. EMBO J. 26: 2083-2093.
- El-Shemerly, M., et al. 2008. ATR-dependent pathways control hExo1 stability in response to stalled forks. Nucleic Acids Res. 36: 511-519.
- Dietschy, T., et al. 2009. p300-mediated acetylation of the Rothmund-Thomson-syndrome gene product RECQL4 regulates its subcellular localization. J. Cell Sci. 122: 1258-1267.
- Nikolaienko, O., et al. 2009. Intersectin 1 forms a complex with adaptor protein Ruk/CIN85 *in vivo* independently of epidermal growth factor stimulation. Cell. Signal. 21: 753-759.
- Schwendener, S., et al. 2010. Physical interaction of RECQ5 helicase with RAD51 facilitates its anti-recombinase activity. J. Biol. Chem. 285: 15739-15745.
- Engels, K., et al. 2011. 14-3-3 Proteins regulate exonuclease 1-dependent processing of stalled replication forks. PLoS Genet. 7: e1001367.
- Palamarchuk, A., et al. 2012. Tcl1 protein functions as an inhibitor of *de* novo DNA methylation in B-cell chronic lymphocytic leukemia (CLL). Proc. Natl. Acad. Sci. USA 109: 2555-2560.

MONOS Satisfation Guaranteed Try **Omni-probe (D-8): sc-7270**, our highly recommended monoclonal aternative to Omni-probe (M-21).