

#M20007

GST-Tag (12G8) Mouse mAb

□ 100 µl (50 Western mini-blot)

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BACKGROUND

Plasmid vectors for the expression of coding regions of eukaryotic genes in *E. coli* are in common usage; such expression vectors often encode hybrid fusion proteins containing part prokaryotic and part eukaryotic specified proteins. For instance, the pGEX.3X expression vector developed by Smith and Johnson allows for synthesis of fusion proteins between glutathione-S-transferase (GST) and proteins encoded by inserted cDNA sequences. Antibodies derived from these GST fusion proteins are useful for checking protein expression both in plaques and on Western blots as well as for immunoaffinity purification of proteins expressed in *E. coli*.

REFERENCES

1. Maniatis, T., Fritsch, E.F. and Sambrook, J. 1982. Molecular Cloning- A Laboratory Manual. Cold Spring Harbor, NY: Cold Spring Harbor Laboratory.
2. 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.
3. Crabb, B.S. and Studdert, M.J. 1995. Expression of small regions of equine herpesvirus 1 glycoprotein C in *Escherichia coli*. *Vet. Microbiol.* 46: 181-191.
4. Soler, D., Nomizu, T., Brown, W.E., Shibata, Y. and Auld, D.S. 1995. Matrilysin: expression, purification, and characterization. *J. Protein Chem.* 14: 511-520.

SOURCE

This monoclonal antibody is produced by immunizing animals with full-length GST.

SPECIFICITY

GST-Tag (12G8) Mouse mAb detects GST and GST fusion proteins.

STORAGE

Store at -20°C. Stable for one year from the date of shipment.

REACTIVITY

All

ISOTYPE

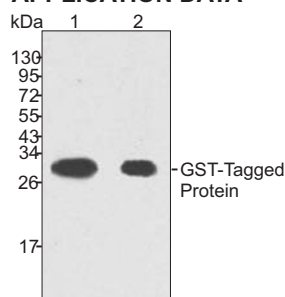
Mouse IgG1

IMPORTANT

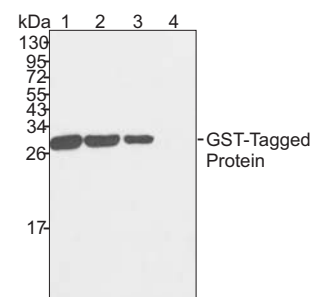
Use an **anti-MOUSE** secondary antibody to detect the 12G8

* For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1× TBS, 0.05% Tween-20 at 4°C with gentle shaking, overnight.

APPLICATION DATA



Western blot analysis of recombinant GST-tagged protein, using GST-tag (12G8) Mouse mAb. The antibody dilutions are 1:5000 (lane 1) and 1:10000 (lane 2). Each lane was loaded with 10 ng of



12G8 can specifically detect 1 ng of recombinant protein. There is 6 ng, 3 ng, 1 ng, and 0 ng GST-tagged recombinant protein in lanes 1-4, respectively. The 12G8 antibody dilution is 1:5000.

COMPANION PRODUCTS

- #M20001 His-Tag (2A8) Mouse mAb
- #M20002 Myc-Tag (19C2) Mouse mAb
- #M20003 HA-Tag (26D11) Mouse mAb
- #M20004 GFP-Tag (7G9) Mouse mAb
- #M20008 DYDDDDDK-Tag (3B9) Mouse mAb (Binds to same epitope as Sigma's Anti-FLAG® M2 Antibody)