Data Sheet (Cat.No.TMAY-01756)

TargetMol

Anti-GST Tag Antibody (3S373)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Schistosoma japonicum
Conjugation:	Unconjugated
Clone:	3S373
Purification:	Protein A

Applications

Verified Activity:	1. Anti-GST Tag was immunoprecipitated using: -Lane A: GST-ARG1-Flag transfected 293 cell lysate (0.5mg) -Lane B: Flag-ARG1-GST transfected 293 cell lysate (0.5mg) -2 μg anti-HA Tag mouse monoclonal antibody and 60 μg of Immunomagnetic beads Protein G. -Primary antibody: -Anti-GST Tag rabbit monoclonal antibody, at 1:100 dilutionSecondary -Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. 2. Recognize GST tag fusion protein human ERK2.Anti-GST Tag mouse monoclonal antibody at 1:4000 -Lane A: GST-ERK2 (Recombinant protein) (100ng) -Lane B: GST-ERK2 (Recombinant protein) (50ng) -Secondary -Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. 3. Recognize GST tag fusion protein human USP7.Anti-GST Tag mouse monoclonal antibody at 1:4000 -Lane A: GST-USP7 (Recombinant protein) (100ng) -Lane B: GST-USP7 (Recombinant protein) (50ng) -Secondary -Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. 4. Recognize GST tag fusion proteins which expressed by 293 cell. -Anti-GST Tag mouse monoclonal antibody at 1:1250 or 1:2500 -Lane A: GST-FABP4-flag transfected 293 Cell Lysate (30ug) -Lane B: flag-FABP4-GST transfected 293 Cell Lysate (30ug) -Lane C: flag-AGR1-GST transfected 293 Cell Lysate (30ug) -Lane D: Negative control -Secondary -Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. 5. Recognize GST tag fusion proteins which expressed by E. coli.Anti-GST Tag mouse

monoclonal antibody at 1:25000, 1:1250
-Lane A: GST-mBID transfected E.coli cell lysate (0.5ug)
-Lane B: GST-mBID transfected E.coli cell lysate (0.2ug)
-Lane C: GST-mBID transfected E.coli cell lysate (0.1ug)
-Lane D: GST-mBID transfected E.coli cell lysate (0.05ug)
-Lane E: GST-mBID transfected E.coli cell lysate (0.02ug)
-Lane F: GST-YWHAB transfected E.coli cell lysate (0.5ug)
-Lane G: GST-YWHAB transfected E.coli cell lysate (0.2ug)
-Lane H: GST-YWHAB transfected E.coli cell lysate (0.1ug)
-Lane I: GST-YWHAB transfected E.coli cell lysate (0.05ug)
-Lane J: GST-YWHAB transfected E.coli cell lysate (0.02ug)
-Lane K: Empty vecter (0.5ug)
-Secondary
-Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution.
-Developed using the Odyssey technique.
-Performed under reducing conditions.
6. Anti-GST Tag mouse monoclonal antibody at 1:25000, 1:1250, 1:1000
-Lane A: GST-mBID transfected E.coli cell lysate (0.1ug)
-Lane B: GST-YWHAB transfected E.coli cell lysate (0.1ug)
-Lane C: Empty vecter (0.1ug)
-Secondary
-Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution.
-Developed using the Odyssey technique.
-Performed under reducing conditions.
7. Anti-GST Tag mouse monoclonal antibody at 1:25000, 1:1250, 1:25000
-Lane A: GST-mBID transfected E.coli cell lysate (0.2ug)
-Lane B: GST-YWHAB transfected E.coli cell lysate (0.2ug)
-Lane C: Empty vecter (0.2ug)
-Secondary
-Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution.
-Developed using the Odyssey technique.
-Performed under reducing conditions.

Application:	IP,WB
Recommended	WB: 1:1000-1:10000; IP: 1-4 μl/mg of lysate

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: GST protein
Antigen Species:	Schistosoma japonicum

Research Background

The glutathione S-transferase (GST) tag is another well-established affinity tag based on the strong affinity of GST for immobilized glutathione. The GST tag is best suitable for use in prokaryotic expression because GSTs are a family of multifunctional cytosolic proteins that are present in eukaryotic organisms but generally not found in bacteria. Similar to the MBP tag, GST tag has long been used to increase the solubility of fusion proteins in E. coli. GST-tagged proteins are captured by immobilized glutathione and then are eluted under mild, nondenaturing conditions using

reduced glutathione.

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