Anti-GST antibody, rabbit serum

60-021　　100 µl

Shipping and Storage: Shipped at 4℃ or -20℃. Store at -20℃.

Immunogen: Recombinant full-size GST (aa 1-212)

Form: Antiserum added with 0.05% sodium azide

Reactivity: Specific to GST and GST-tagged proteins

Applications:

1. Western blotting (dilution: 1/2,000~1/10,000)

2. Immunoprecipitation (assay dependent)　3. ELISA

Other applications have not been tested.

Backgroound: Glutathione S transferase (GST) from *Schistosoma japonicum* is commonly used to create fusion proteins. GST-tag has the size of 220 amino acids (roughly 26kDa) and is fused to the N-terminus of a protein. GST fusion proteins can be produced in *Escherichia coli*, as recombinant proteins and are used to purify and detect proteins of interest. The GST part binds its substrate, glutathione. GST-fusions protein can be easily purified from cell extracts by affinity chromatography with glutathione resin.

Data Link: NCBI Protein Data AAA57089

Fig.1

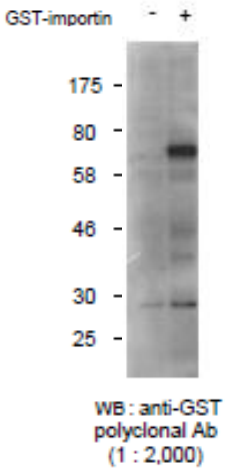

Fig.1 Detection of GST-tagged protein with this antibody by Western blotting.

-: Lysate of 293T cells transfected with an empty vector

+: Lysate of 293T cells transfected with the plasmid carrying the GST-tagged importin gene

Fig.2

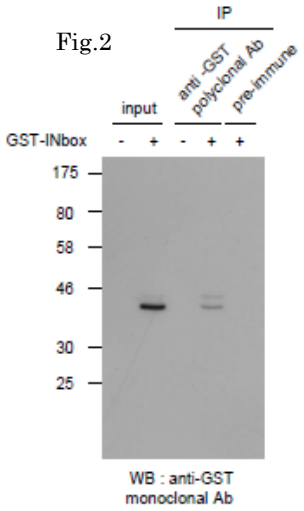

Fig.2 Immunoprecipitation of GST-tagged protein with this antibody followed by Western blotting.

-: Lysate of 293T cells transfected with an empty vector

+: Lysate of 293T cells transfected with the plasmid carrying the GST-tagged INbox gene

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References:

1. Smith DB & Johnson KS (1988) "Single-step purification of polypeptides expressed in *Escherichia coli* as fusions of glutathione-S-transferase." *Gene* **67**:31-40 PMID: 3047011
2. Kaelin WG Jr *et al* (1991) "Identification of cellular proteins that can interact specifically with the T/E1A-binding region of the retinoblastoma gene product." *Cell* **64**:521-532 PMID: 1825028
3. *Molecular Cloning: A laboratory Manual* (eds. Sambrook,J., Russell,D.W. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, USA, 2001) pp.15.36-15.39, pp.18.48-18.59.