

## GST-tag Antibody [HRP], pAb, Goat

**Cat. No.:** A01380-40

**Size:** 40 µg

**Synonyms:** Goat Anti-GST-tag [HRP] pAb;

### Description:

*Schistosoma japonicum* glutathione S-transferase (GST) is a 26,000 Da enzyme that conjugates reduced glutathione to hydrophobic electrophiles. GST is an ideal fusion partner for production of foreign proteins in commercially available expression systems because it can be expressed in high levels in *E. coli*. The fusion proteins can be purified to homogeneity in a single step as the GST portion of the protein binds tightly to immobilized glutathione. Elution can be accomplished by using free glutathione. The GST portion of the fusion protein can be separated from the protein of interest by introducing site-specific proteases. Antibodies directed against GST can detect both the fusion protein during purification and the cleavage of GST from the protein of interest.

GenScript **Goat Anti-GST-tag [HRP] Polyclonal Antibody** is developed in goat using a recombinant Glutathione S-Transferase (GST) from *Schistosoma japonicum*. The antibody is highly purified by immunoaffinity chromatography from goat antiserum and is then conjugated to horseradish peroxidase.

**Immunogen:** Recombinant Glutathione S-Transferase (GST) from *Schistosoma japonicum*.

**Host:** Goat

**Conjugation:** Horseradish peroxidase (HRP)

### Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 1% BSA

and 0.01% thimerosal.

**Ig Subclass:** Goat IgG

**Specificity:** GenScript Goat Anti-GST-tag [HRP] Polyclonal Antibody detects GST fusion proteins in expression systems including bacterial expression system, mammalian expression system and others.

**Purification:** Immunoaffinity chromatography

### Applications:

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

**ELISA:** 0.05-0.2 µg/ml

**Western blot:** 0.2-1 µg/ml

**Other Applications:** user-optimized

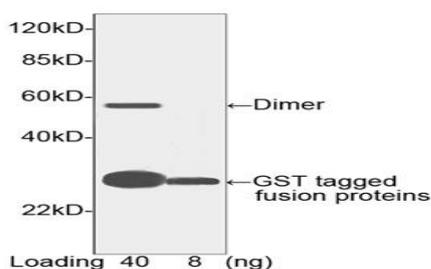
### Reconstitution:

Reconstitute the lyophilized powder with deionized water (or equivalent) to a final concentration of 0.5 mg/ml

### Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

### Example



Western blot analysis of GST-tagged fusion protein using GST-tag Antibody [HRP], pAb, Goat (GenScript, A01380, 1 µg/ml) The signal was developed with LumiSensor™ HRP Substrate Kit (GenScript, L00221V) Predicted Size: 31 kD Observed Size: 31 kD, 62kD