

Rev03
Update: Oct,19,2022

DATASHEET

GST-tag Antibody, pAb, Rabbit

Cat. No.: A00097

Overview

Specificity	This antibody can be used to detect GST-fusion proteins in almost expression systems including bacterial expression system, mammalian expression system and other systems.
Host Species	Rabbit
Immunogen	Recombinant Glutathione-S-Transferase from <i>Schistosoma japonicum</i>
Species Reactivity	Schistosoma japonicum
Conjugate	Unconjugated

Applications

Working concentrations for specific applications should be determined by the investigators. 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.

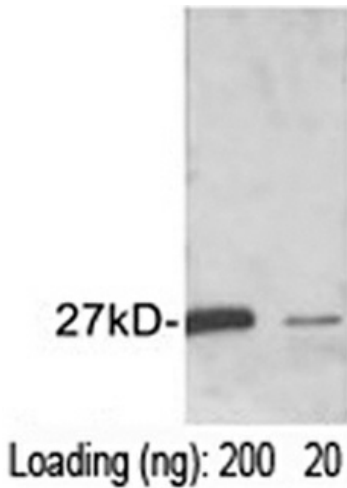
Application	Recommended Usage
ELISA	0.05-0.5 µg/ml
Western Blot	0.1-1.0 µg/ml

Properties

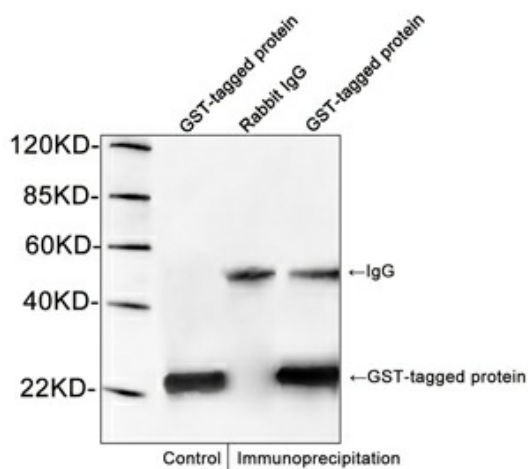
Form	Lyophilized
Storage Buffer	Supplied in PBS, pH 7.4 with 0.02% sodium azide
Reconstitution	Reconstitute the lyophilized antibody with deionized water (or equivalent) to the final concentration of 0.5 mg/ml.
Storage Instructions	The product remains stable up to 1 year at -20 °C from date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8 °C or for up to 12 months at -20 °C or below. Avoid repeated freezing and thawing cycles.

Purification	Affinity chromatography
Isotype	Rabbit IgG
Clonality	Polyclonal
Clone ID	Not applicable

Examples



Western blot analysis of GST fusion protein using 1 µg/ml Rabbit Anti-GST-tag Polyclonal Antibody (GenScript, A00097). The result was developed with One-Step Western™ Basic Kit (Rabbit) (GenScript, L00204).



Western blot analysis of immunoprecipitates from GST fusion protein lysates. GST-tagged protein was immunoprecipitated with Rabbit Anti-GST-Tag Polyclonal Antibody (GenScript, A00097) and specificity was confirmed by immunoprecipitation with rabbit IgG. Western blot was performed using Rabbit Anti- GST-Tag Polyclonal Antibody (GenScript, A00097).

Background

Target Background : GenScript Rabbit Anti-GST-tag Polyclonal Antibody is highly purified from rabbit antiserum by immunoaffinity chromatography. The immunogen used is a recombinant version of glutathione-S-transferase from *Schistosoma japonicum*. Glutathione-S-transferase is an epitope tag in generating fusion proteins. Antibodies specific to fusion proteins are useful in monitoring protein expression in Western Blots as well as immunoaffinity purification of proteins expressed in *E. coli*. The glutathione-S-transferases are a family of enzymes that catalyze the addition of the tripeptide glutathione to endogenous and xenobiotic substrates which have electrophilic functional groups. They play an important role in the detoxication and metabolism of many xenobiotic and endobiotic compounds. The glutathione adducts produced have increased solubility in water and are subsequently enzymatically degraded to mercapturates and excreted.

Synonyms : Rabbit Anti-GST-tag pAb

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.