

## Monoclonal Anti-GST Tag

**Catalog#** BTL1008

**Lot #** Check on the product label

**Size** 100µg

**Isotype** IgG1

**Host** Mouse

**Reactivity**

All

**Specificity**

Recognize GST and GST fusion proteins.

**Product Form** Liquid (1mg/ml)

**Immunogen**

Recombinant GST protein with full length.

**Recommend Application**

Western Blot (1:5000)

ELISA (1:2000)

Other applications have not been tested.

The optimal dilutions should be determined by end user.

**Storage Instruction**

Store at -20°C for 1 year. Or aliquot and store at -80°C for long term.

Avoid repeated freeze and thaw cycles.

**Background**

The glutathione S-transferase (GST, previously known as ligandins) family of enzymes are composed of many cytosolic, mitochondrial, and microsomal (now designated as MAPEG) proteins. GSTs

are present in eukaryotes and in prokaryotes, where they catalyze a variety of reactions and accept endogenous and xenobiotic substrates. GST is commonly used to create fusion proteins. The tag has the size of 220 amino acids (roughly 26 KDa), which, compared to other tags like the myc- or the FLAG-tag, is quite big. A GST-tag is often used to separate and purify proteins that contain the GST-fusion. GST-fusion proteins can be produced in Escherichia coli, as recombinant proteins.

**Reference**

1. Udomsinprasert R, Pongjaroenkit S, Wongsantichon J, Oakley AJ, Prapanthadara LA, Wilce MC, Ketterman AJ (June 2005). "Identification, characterization and structure of a new Delta class glutathione transferase isoenzyme". *Biochem. J.* 388 (Pt 3): 763 - 71.
2. Sheehan D, Meade G, Foley VM, Dowd CA (November 2001). "Structure, function and evolution of glutathione transferases: implications for classification of non-mammalian members of an ancient enzyme superfamily". *Biochem. J.* 360 (Pt 1): 1 - 16.
3. Allocati N, Federici L, Masulli M, Di Ilio C (January 2009). "Glutathione transferases in bacteria". *FEBS J.* 276 (1): 58 - 75.

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FOR RESEARCH USE ONLY, NOT FOR DIAGNOSTIC AND CLINICAL USE.

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