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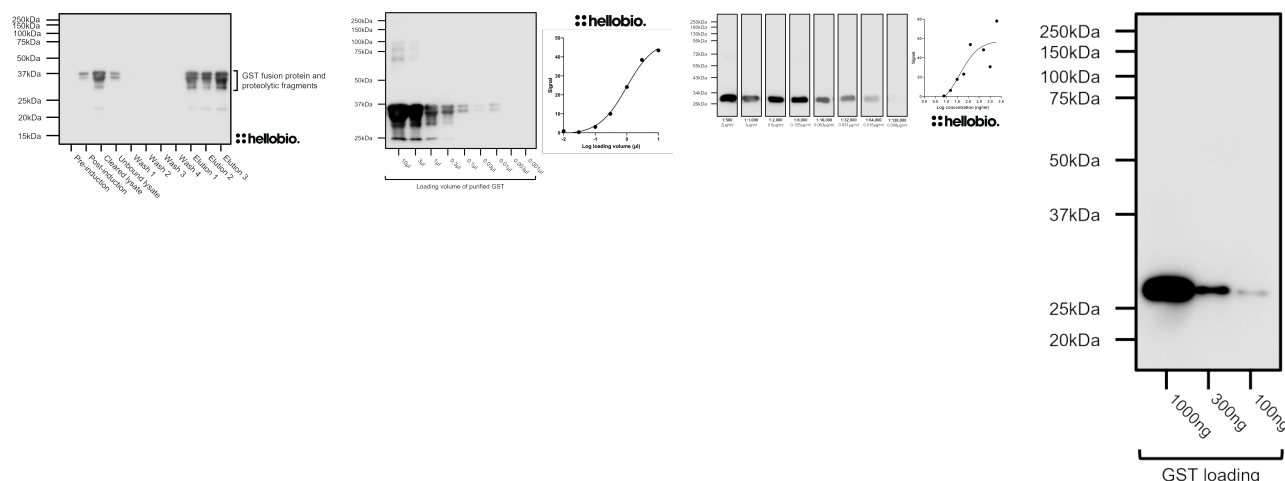
## DATASHEET

### Anti-GST tag antibody ValidAb™

## Product overview

<b>Name</b>	Anti-GST tag antibody ValidAb™
<b>Cat No</b>	HB9897
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Target</b>	GST tag
<b>Description</b>	Antibody to the GST tag - widely used as a protein tag in molecular biology. Part of the ValidAb™ range of highly validated, data-rich antibodies.

## Validation data



## Product information

<b>Immunogen</b>	A GST-fusion protein
<b>Clone number</b>	S-tag-05
<b>Isotype</b>	IgG2b
<b>Purification</b>	Protein A affinity chromatography
<b>Concentration</b>	1mg/ml
<b>Formulation</b>	Lyophilised. When reconstituted contains PBS with 15mM sodium azide and 1% recombinant albumin
<b>Predicted species reactivity</b>	Species Independent
<b>Tested species reactivity</b>	Species Independent

## Tested applications

<b>Applications</b>	ELISA, WB
<b>Western blot optimal concentration</b>	Dependent upon sample GST-fusion protein expression levels. When 10µg of a GST-fusion protein was loaded a strong signal was observed at antibody concentrations as low as 0.031µg/ml (1:32,000 dilution).
<b>Positive control</b>	Any tissue or cell sample that has been engineered to express a GST-tagged fusion protein.
<b>Negative control</b>	Any wild type tissue or cellular sample
<b>Open data link</b>	Please follow this <a href="#">link to the OSF</a>

## Target information

Other names	Glutathione S-transferase class-mu 26 kDa isozyme, Glutathione S-transferase tag
UniProt ID	P08515
Amino acids	218 (25.5kDa)
Isoforms	None
Expression	Exogenously expressed only. Not expressed natively in mammalian cells. Expressed natively in the blood fluke <i>Schistosoma japonicum</i>
Subcellular expression	GST-tagged proteins express in a range of subcellular compartments dependent upon the conjugated protein.

## Storage & Handling

Storage instructions	-20 °C then use reconstitution advice
Reconstitution advice	Upon receipt store at either -20 °C or -80 °C.

For 100µg packs either:

- Reconstitute with 100µl dH<sub>2</sub>O and store at 4 °C
- Reconstitute with 50µl dH<sub>2</sub>O and 50µl glycerol then store at -20 °C
- Reconstitute with 100µl dH<sub>2</sub>O, aliquot then snap freeze and store at -80 °C

For 25µg packs either:

- Reconstitute with 25µl dH<sub>2</sub>O and store at 4 °C
- Reconstitute with 12.5µl dH<sub>2</sub>O and 12.5µl glycerol then store at -20 °C
- Reconstitute with 25µl dH<sub>2</sub>O, aliquot then snap freeze and store at -80 °C

For more information [read our guide](#) on the best care for your product. Take care when opening as the precipitate is extremely light and can easily be lost if disturbed. When reconstituting make sure that the antibody is thoroughly dissolved by pipetting up and down before giving the antibody a brief spin at 10,000g to make sure that all material is recovered and at the bottom of the tube.

Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use
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## References

### Expression and purification of GST fusion proteins.

Harper S et al (2001) Current protocols in protein science Chapter 6

PubMedID [18429193](#)

### Preparation of soluble GST fusion proteins.

Rebay I et al (2009) Cold Spring Harbor protocols 2009

PubMedID [20150052](#)

### Purification of proteins fused to glutathione S-transferase.

Harper S et al (2011) Methods in molecular biology (Clifton, N.J.) 681

PubMedID [20978970](#)

### GST-His purification: a two-step affinity purification protocol yielding full-length purified proteins.

Maity R et al (2013) Journal of visualized experiments : JoVE e50320

PubMedID [24193370](#)

### Expression and purification of large active GST fusion enzymes.

Deceglie S et al (2014) Methods in molecular biology (Clifton, N.J.) 1129

PubMedID 24648076

Purification of GST-Tagged Proteins.

Schäfer F et al (2015) Methods in enzymology 559

PubMedID 26096507

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