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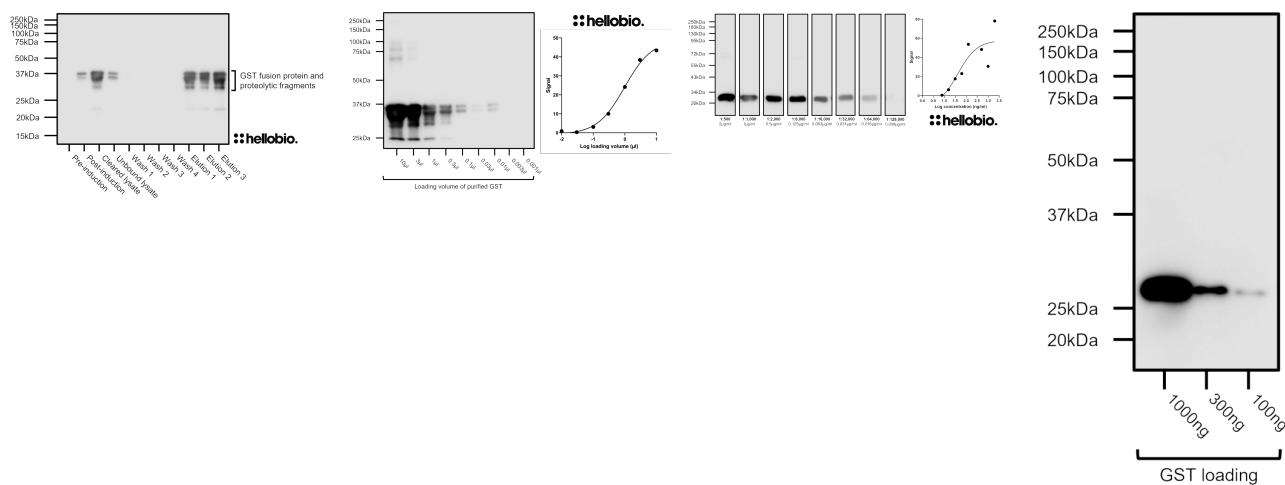
## DATASHEET

### Anti-GST tag antibody ValidAb™

#### Product overview

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

#### Validation data



#### Product information

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

#### Tested applications

Applications	ELISA, WB
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<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>

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## Target information

<b>Other names</b>	Glutathione S-transferase class-mu 26 kDa isozyme, Glutathione S-transferase tag
<b>UniProt ID</b>	P08515
<b>Amino acids</b>	218 (25.5kDa)
<b>Isoforms</b>	None
<b>Expression</b>	Exogenously expressed only. Not expressed natively in mammalian cells. Expressed natively in the blood fluke <i>Schistosoma japonicum</i>
<b>Subcellular expression</b>	GST-tagged proteins express in a range of subcellular compartments dependent upon the conjugated protein.
<b>Target function</b>	GST-tags serve as an affinity tag that allows for easy purification of a tagged protein using glutathione beads. The GST tag specifically binds to glutathione, facilitating the purification of the target protein by immobilizing it on the beads, while untagged proteins can be washed away, resulting in a highly pure preparation of the GST-tagged protein for downstream analyses.

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## Storage & Handling

<b>Storage instructions</b>	-20°C then use reconstitution advice
<b>Reconstitution advice</b>	Upon receipt store at either -20°C or -80°C.
For 100µg packs either:	
<ul style="list-style-type: none"><li>• Reconstitute with 100µl dH<sub>2</sub>O and store at 4°C</li><li>• Reconstitute with 50µl dH<sub>2</sub>O and 50µl glycerol then store at -20°C</li><li>• Reconstitute with 100µl dH<sub>2</sub>O, aliquot then snap freeze and store at -80°C</li></ul>	
For 25µg packs either:	
<ul style="list-style-type: none"><li>• Reconstitute with 25µl dH<sub>2</sub>O and store at 4°C</li><li>• Reconstitute with 12.5µl dH<sub>2</sub>O and 12.5µl glycerol then store at -20°C</li><li>• Reconstitute with 25µl dH<sub>2</sub>O, aliquot then snap freeze and store at -80°C</li></ul>	

**Storage instructions**

-20°C then use reconstitution advice

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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