

# GST (26H1) Mouse mAb (Alexa Fluor® 647 Conjugate)



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**For Research Use Only. Not For Use In Diagnostic Procedures.**

Applications	Species Cross-Reactivity	Isotype
F Transfected	All	Mouse IgG2a

**Description:** This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct flow cytometric analysis in cells transfected with GST-tagged protein.

**Background:** Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation and immunostaining techniques. Due to their small size, they are unlikely to affect the tagged protein's biochemical properties.

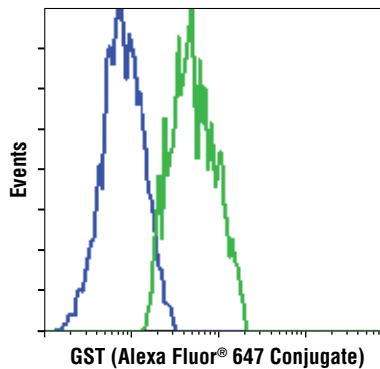
Glutathione S-transferase (GST) is a widely used fusion partner, since it provides both an easily detectable Tag and a simple purification process with little effect on the biological function of the protein of interest. Numerous vectors containing GST-Tag have been developed for both prokaryotic and eukaryotic systems over the past decade (1-3).

**Specificity/Sensitivity:** GST (26H1) Mouse mAb (Alexa Fluor® 647 Conjugate) detects transfected glutathione S-transferase (GST) fusion proteins.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a GST fusion protein. This antibody was conjugated to Alexa Fluor® 647 under optimal conditions with an F/P ratio of 2-6. The Alexa Fluor® 647 dye is maximally excited by red light (e.g. 633 nm He-Ne laser). Antibody conjugates of the Alexa Fluor® 647 dye produce bright far-red-fluorescence emission, with a peak at 665 nm.

#### Background References:

- (1) Guan, K.L. and Dixon, J.E. (1991) *Anal Biochem* 192, 262-7.
- (2) Davies, A.H. et al. (1993) *Biotechnology (N Y)* 11, 933-6.
- (3) Yu, J. et al. (1998) *Mol Cell Biol* 18, 1379-87.



Flow cytometric analysis of COS cells, untransfected (blue) or transfected with GST (green), using GST (26H1) Mouse mAb (Alexa Fluor® 647 Conjugate).

**Storage:** Supplied in PBS (pH 7.2), 2 mg/ml BSA and less than 0.1% sodium azide. Store at 4°C. *Protect from light. Do not freeze.*

#### Recommended Antibody Dilutions:

Flow Cytometry 1:50

**For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).**

**Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.**

The Alexa Fluor® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc., for research use only, except for use in combination with DNA microarrays. The Alexa Fluor® dyes (except for Alexa Fluor® 430 dye) are covered by pending and issued patents.

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**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine

Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected