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

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
FC-FP	All	Transfected Only	Mouse IgG2a
Product Usage Information	Application	Dilution	
	Flow Cytometry (Fixed/Permeabilized)	1:50	
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.		
Specificity/Sensitivity	GST-Tag (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.		
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. Because of 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).		
Background References	<ol style="list-style-type: none"> 1. Guan, K.L. and Dixon, J.E. (1991) <i>Anal Biochem</i> 192, 262-7. 2. Davies, A.H. et al. (1993) <i>Biotechnology (N Y)</i> 11, 933-6. 3. Yu, J. et al. (1998) <i>Mol Cell Biol</i> 18, 1379-87. 		
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)		
Cross-Reactivity Key	All: All Species Expected		
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