

R1064FS**Polyclonal Antibody to Beta-galactosidase tag - FITC**

Alternate names:	Beta-Gal Fusion Protein, Beta-Gal tag, JW0335, Lactase, b0344, lacZ tag
Quantity:	0.1 mg
Concentration:	1.0 mg/ml (by UV absorbance at 280 nm)
Uniprot ID:	P00722
NCBI:	AP_000996.1
GeneID:	945006
Host:	Rabbit
Immunogen:	Beta-galactosidase from E.coli
Format:	State: Lyophilized purified IgG fraction Purification: Multi-step process including delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer Buffer System: 0.02M Potassium phosphate, 0.15M Sodium chloride, pH 7.2 Preservatives: 0.01% (w/v) Sodium azide Stabilizers: 10 mg/ml BSA (immunoglobulin and protease free) Label: FITC – Fluorescein isothiocyanate (molecular weight 390 daltons) <i>Absorption / Emission:</i> 495 nm / 528 nm <i>Molar Ratio:</i> 3.5 moles FITC per mole of IgG Reconstitution: Restore with 0.1 ml of deionized water (or equivalent).
Applications:	This product is designed for fluorescent Western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. <i>Recommended Dilutions:</i> Western blot: 1/10,000. IF microscopy: 1/500-1/2,500. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum as well as purified and partially purified beta galactosidase (E.coli).
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Product Citations:	Purchased from Acris: 1. Taylor SR, Gonzalez-Begne M, Sojka DK, Richardson JC, Sheardown SA, Harrison SM, et al. Lymphocytes from P2X7-deficient mice exhibit enhanced P2X7 responses. J Leukoc Biol. 2009 Jun;85(6):978-86. doi: 10.1189/jlb.0408251. Epub 2009 Mar 10. PubMed PMID: 19276178.

Pictures:

Western blotting using fluorescein conjugated anti-Beta-galactosidase tag antibody shows a band at ~117 kDa (lanes 1-3) corresponding to 60 ng, 30 ng and 15 ng, respectively of b-Gal present in partially purified preparations (arrowhead). Lane 4 shows no cross reactivity with proteins present in a non-specific control E.coli lysate. Proteins were resolved on a 4-20% Tris-glycine gel by SDS-PAGE and transferred to nitrocellulose and blocking using blocking buffer for fluorescent Western blotting. The membrane was probed with Fluorescein conjugated anti-Beta-galactosidase Cat.-No. R1064F diluted to 1/10,000. Reaction occurred for 2 hours at RT. Molecular weight estimation was made by comparison to a prestained MW marker in lane M. Fluorescence image was captured using the VersaDoc® imaging system. Other detection systems will yield similar results.

