

Anti-GFP antibody, rat monoclonal (1A5)

60-001 100 ug

Storage: Shipped at 4°C and store at -20°C.

Reactivity: Reacts with GFP, EGFP and their fused proteins

Immunogen: Recombinant GFP protein

Applications

1. Western blotting (~1ug/ml)
2. Immunoprecipitation
3. Immunocytochemistry
4. Chromatin Immunoprecipitation (ChIP)
5. ELISA

Isotype: Rat IgG1 kappa

Form: Purified monoclonal antibody (IgG) 1mg/ml in PBS, 50% glycerol, filter-sterilized Azide and carrier free.

Background: The **green fluorescent protein (GFP)** is composed of 238 amino acids (26.9 kDa), originally isolated from the jellyfish *Aequorea victoria* that fluoresces green when exposed to blue light . In cell and molecular biology, the GFP fused gene is frequently used as a reporter of expression and protein localization .

Data Link: UniProtKB/Swiss-Prot [P42212](#) (GFP_AEQVI)

Immunofluorescent staining with anti
GFP antibody, 1A5

Fluorescent image due to GFP

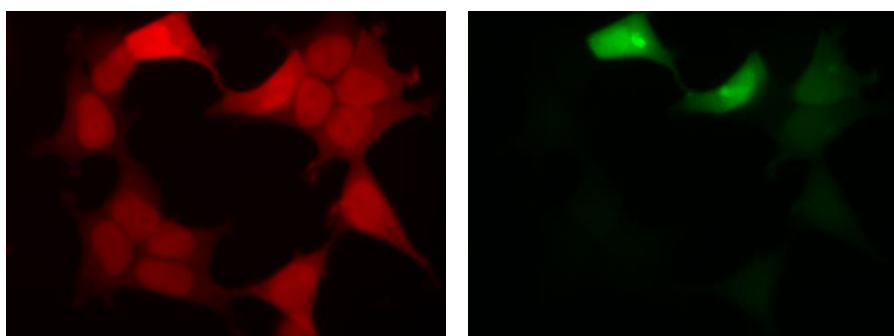


Fig.1 Fluorescent image of COS1 cells due to GFP of GST-ZIPK fusion protein expressed in HEK293T cells (Right) and the same cells were immunostained by using anti-GFP antibody 1A5, followed by Texas Red-conjugated anti-rat IgG (Left). Note that fluorescence by the immunofluorescent staining using 1A5 antibody is much stronger than fluorescence due to GFP

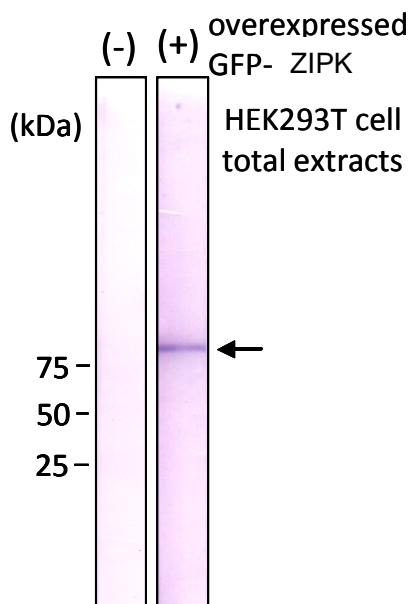


Fig.2 Detection of GFP-ZIPK fusion protein over-expressed in HEK293 cells by Western blotting with antibody 1A5.

(-) HEK293T cell extract without overexpression
(+) GFP-ZIPK protein- overexpressed HEK293T cell extract

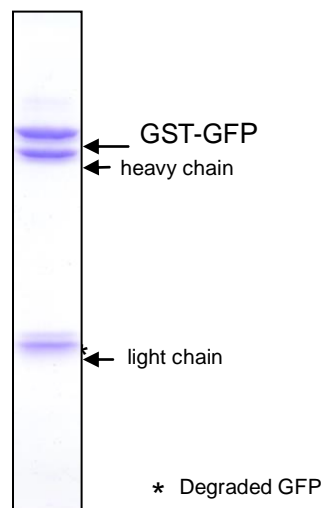


Fig.3 Immunoprecipitation of GST-GFP fusion protein with antibody 1A5.

References: This antibody has been used in the following publications.

- 1.Okazaki K. et al. Nuclear localization signal in a cancer-related transcriptional regulator protein NAC1. [Carcinogenesis](#). 2012 Oct;33(10):1854-62. **IP**
- 2.Maekawa K. et al. Tissue-specific expression of histone H3 variants diversified after species separation. [Epigenetics Chromatin](#). 2015 Sep 17;8:35. **ChIP**

Related product: [#60-011](#) anti-GFP antibody , rabbit serum