

Anti-GFP antibody, rat monoclonal (1A5)

Product code	60-001
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium.
Immunogen	Purified recombinant GFP protein
Isotype	Rat IgG1κ
Reactivity	GFP, EGFP and their fused proteins
Special notes	N/A
Application	<ol style="list-style-type: none"> 1. Western blotting (~1ug/ml) 2. Immunoprecipitation 3. Immunocytochemistry 4. Chromatin Immunoprecipitation (ChIP) 5. ELISA
Background	<p>The green fluorescent protein (GFP) is composed of 238 amino acids (26.9 kDa), originally isolated from the jellyfish <i>Aequorea victoria</i> that fluoresces green when exposed to blue light .</p> <p>In cell and molecular biology, the GFP fused gene is frequently used as a reporter of expression and protein localization.</p>
Data Link	UniProtKBt P42212 (GFP_AEQVI)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 60-001 Anti-GFP antibody, rat monoclonal (1A5)

**Immunofluorescent staining with anti
GFP antibody, 1A5**

Fluorescent image due to GFP

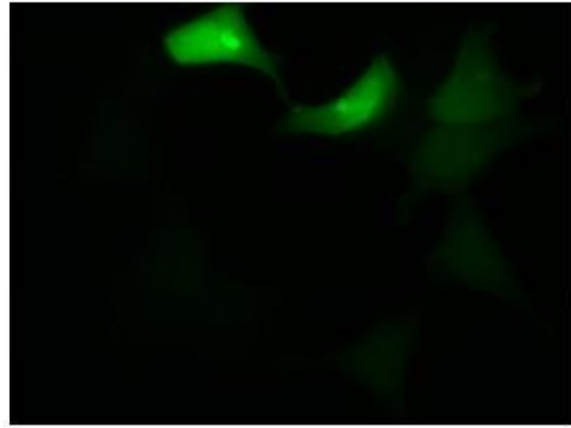
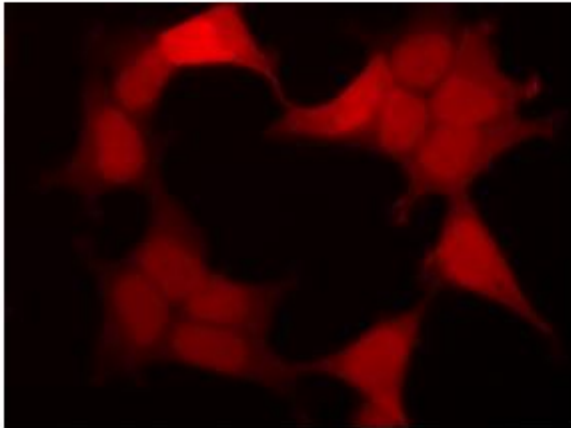


Fig.1 Fluorescent image of COS1 cells due to GFP of GST-ZIPK fusion protein expressed in HEK293T cells (Right) and the same cells were immunostained by using anti-GFP antibody 1A5, followed by Texas Red-conjugated anti-rat IgG (Left).

Note that fluorescence by the immunofluorescent staining using 1A5 antibody is much stronger than fluorescence due to GFP

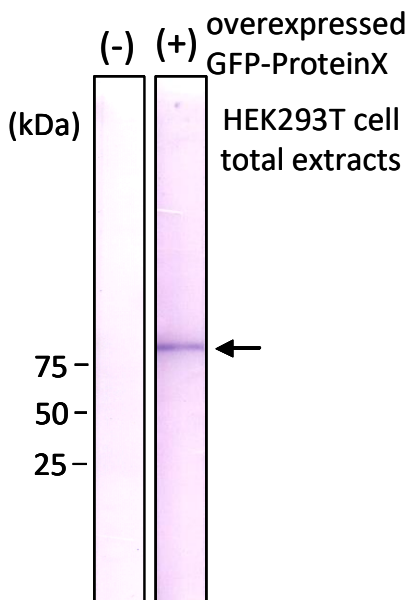


Fig.2 Detection of GFP-ZIPK fusion protein over-expressed in HEK293 cells by Western blotting with antibody 1A5.

(-) HEK293T cell extract without overexpression

(+) GFP-ZIPK protein- overexpressed HEK293T cell extract

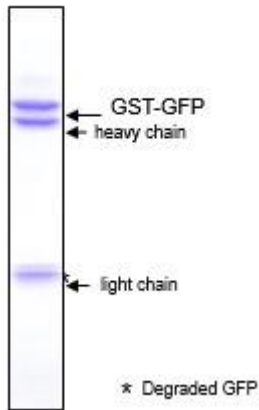


Fig.3 Immunoprecipitation of GST-GFP fusion protein with antibody 1A5.

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