Catalog No. LF-MA0130

MONOCLONAL ANTIBODY

Anti-Green Fluorescent Protein (18A11)

Background : Green fluorescent protein (GFP) isolated from jellyfish *Aequorea aequorea* is a 238 amino acid protein with an apparent molecular weight of about 27-30 kDa on SDS-PAGE. Its chromophore is formed by cyclisation and oxidation of the three amino acids Ser65, Tyr66, and Gly67. The numerous applications include : using GFP as a reporter for gene expression, as a marker to study cell lineage during development and as a tag to localize proteins in living cells. Other applications of GFP include assessment of protein protein interactions through the yeast two hybrid system and measurement of distance between proteins through fluorescence energy transfer (FRET) protocols. GFP technology has considerably contributed to a greater understanding of cellular physiology.

Immunogen : Recombinant green fluorescent protein

Host : Mouse

Clone number : 18A11

Isotype : IgG1, k

Size : 100 µℓ

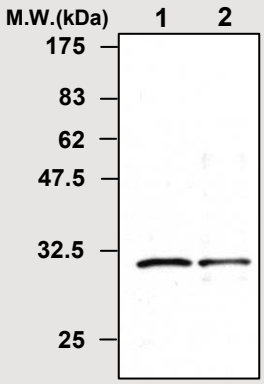
Composition : PBS containing 50% glycerol

Positive control : Bosc23 cell lysates transfected with GFP

Storage : Store for 1 year at -20°C from date of shipment

Species cross reactivity

Human	Mouse	Rat
+	NT	NT



IMMUNOPRECIPITATION ANALYSIS of Bosc23 cell lysates
Lane 1: Input(Bosc23 cell lysates transfected with GFP)
Lane 2: Precipitates
Immunoblot :anti-GFP polyclonal antibody (#LF-PA0043)

Applications :
ELISA
Immunoprecipitation (1 µℓ/400 µℓ lysates)

Background Reference :

1) Hans-Hermann Gerdes et al. (1996) *FEBS Letters* 389:44-47
2) J.C. March et al. (2003) *Appl Microbiol Biotechnol* 62:303-315

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