



Anti-GFP, AlpHcAbs® Mouse antibody(HRP)

Summary

Code 019-301-005

Immunogen GFP

Host Alpaca pacous

Isotype VHH domain of alpaca IgG2b/2c fused to Mouse IgG2a Fc(mutation)

Conjugate HRP Specificity GFP

Cross-Reactivity Recognizes GFP, mEGFP, superfolder GFP and most common CFP and YFP variants. Does not cross-react with mCherry,

mRFP, dsRed, mTagBFP, mTagRFP or their most common derivatives

Purity Recombinant Expression and Affinity purified

Concentration 1mg/ml

Formation Liquid, 10mM PBS (pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300,50% Glycerol

Storage Store at -20 °C(Avoid freeze / thaw cycles), protect from light

Description

Anti-GFP, AlpHcAbs® Mouse antibody(HRP) is designed for detecting GFP fusion proteins specifically. Anti-GFP, AlpHcAbs® Mouse antibody(HRP) is based on monoclonal, recombinant, mouse IgG2a Fc fused fab of alpaca IgG1 antibody to GFP coupled to HRP. Based on immunoelectrophoresis and/or ELISA, Anti-GFP, AlpHcAbs® Mouse antibody(HRP) detects GFP fusion proteins selectively, no reactivity with other proteins.

Background

Green fluorescent proteins (GFPs) and the variants thereof are widely used to study protein function and location. GFP was originally derived from the jellyfish Aequorea victoria. It has 238 amino acid residues and a green fluorophore, which is comprised of only three amino acids: Ser65-Tyr66-Gly67. The stable protein structure is formed by beta sheets, which have a conformation that makes up an 11-stranded drum-like structure. The stability of GFP allows it to withstand pH levels ranging from mildly acidic (pH=5.5) to extremely basic (pH=12), and can also resist temperatures of up to 65°C. GFP has major and minor excitation peaks at wavelengths of 395 nm and 475 nm, respectively.

Using antibody with Fc(mutation), the background from Fc receptors will be eliminated.

Benefits

High lot-to-lot consistency Increased sensitivity and higher affinity Animal-free production

Suggested Working Concentration

ELISA 1:50000-1:200000 WB 1:50000-1:200000

Dilution factors are presented in the form of a range because the optimal dilution is a function of many factors, such as antigen density, permeability, etc. The actual dilution used must be determined empirically.

This product is for research use only and is not approved for use in humans or in clinical

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