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Datasheet for ABIN2344801 RFP ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	RFP
Reactivity:	Discosoma
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Sample Type:	Cell Samples, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	150 pg/mL
Characteristics:	RFP ELISA Kit is an enzyme immunoassay developed for detection and quantitation of RFP or RFP fusion protein in cell or tissue samples. The quantity of RFP or its variants (including TagRFP, TurboRFP, DsRed, tdTomato, mCherry, mKate, mRuby, mBanana, mOrange, mPlum, and mStrawberry) in an unknown sample is determined by comparing its absorbance with that of a known recombinant RFP standard curve. The kit has detection sensitivity limit of 150 pg/mL RFP. The kit also provides an efficient system for rapid quantitation of RFP lentivirus titer for both viral supernatant and purified virus. Each kit provides sufficient reagents to perform up to 96 assays including standard curve and RFP samples.
Components:	 Anti-RFP Antibody Coated Plate : One 96-well strip plate (8 x 12). Biotinylated Anti-RFP Antibody (1000X) : One 15 μL vial of biotinylated antibody recognizing sea anemone Discosoma RFP and its variants.

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	 Streptavidin-Enzyme Conjugate : One 20 μL vial. Assay Diluent : One 50 mL bottle. 10X Wash Buffer : One 100 mL bottle. 2
	6. Substrate Solution : One 12 mL amber bottle.
	7. Stop Solution (Part. No. 310808): One 12 mL bottle.
	Box 2 (shipped on blue ice packs)
Material not included:	1. RFP Sample: cell or tissue lysate
	2. 10 μ L to 1000 μ L adjustable single channel micropipettes with disposable tips
	3. 50 μ L to 300 μ L adjustable multichannel micropipette with disposable tips
	4. Multichannel micropipette reservoir
	5. Microplate reader capable of reading at 450 nm (620 nm as optional reference wave length)

Target Details

RFP Products)
luorescent protein (DsRed) is a spontaneously fluorescent protein isolated from the Indo- c sea coral, Discosoma striata. It absorbs and emits orange-red light and is well suited for color tagging used in FRET. Since the molecular cloning of RFP cDNA and demonstration P as a functional transgene, RFP has become a powerful tool with exciting applications in opmental, cell and molecular biology. RFP fluorescence is not species specific and can be ssed in bacteria, yeast, plant and mammalian cells. RFP can fuse with proteins of interest ut interfering significantly with their assembly and function. Based on the structure of the nolecule, many RFP variants have been created with much improved fluorescence sion, or shifted excitation or emission spectra that are well suited for fluorescence escopy and flow cytometry. Although RFP expression can be easily detected under a escence microscope, RFP fluorescence intensity varies from cell to cell because of the ogeneity nature of RFP expression. In order to quantitate the RFP expression in cells, FACS sis is usually required, which is both expensive and time consuming.

Application Details

Comment:	Detect as little as 150 pg/mL of RFP
	Recognizes TagRFP, TurboRFP, DsRed, mCherry, mKate, mRuby, mBanana, mOrange,
	mPlum, mStrawberry, and tdTomato

Simpler and faster than FACS analysis

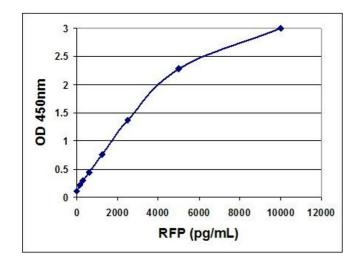
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Application Details

Plate:	Pre-coated
Reagent Preparation:	1X Wash Buffer: Dilute the 10X Wash Buffer Concentrate to 1X with deionized water. Stir to
	homogeneity. Anti-RFP Antibody and Streptavidin-Enzyme Conjugate: Immediately before use
	dilute the Biotinylated Anti-RFP antibody 1:1000 and the Streptavidin-Enzyme Conjugate 1:1000
	with Assay Diluent. Do not store diluted solutions.
Assay Procedure:	 Prepare cell or tissue lysates containing RFP or RFP fusion protein. Note: Because the ELISA kit has a linear range of 156 pg/mL to 10000 pg/mL, we recommend using assay diluent to make series of 2-fold dilutions for each unknown sample. Add 100 µL of RFP sample or RFP standard to the Anti-RFP Antibody Coated Plate. Each RFI sample, RFP standard and blank should be assayed in duplicate. Cover with a plate cover and incubate at room temperature for 2 hours on an orbital shaker. Wash microwell strips 5 times with 250 µL 1X Wash Buffer per well with thorough aspiration between each wash. After the last wash, empty wells and tap microwell strips on absorbent pad or paper towel to remove excess 1X Wash Buffer. Add 100 µL of the diluted Biotinylated Anti-RFP antibody to each well. Incubate at room temperature for 1 hour on an orbital shaker. Wash the strip wells 5 times according to step 4 above. Add 100 µL of the diluted Streptavidin-Enzyme Conjugate to each well. Incubate at room temperature for 1 hour on an orbital shaker. Wash the strip wells 5 times according to step 4 above. Add 100 µL of the diluted Streptavidin-Enzyme Conjugate to each well. Incubate at room temperature for 1 hour on an orbital shaker. Wash the strip wells 5 times according to step 4 above. Proceed immediately to the next step. Warm Substrate Solution to room temperature. Add 100 L of Substrate Solution to each well including the blank wells. Incubate at room temperature on an orbital shaker. Actual incubation time may vary from 2-20 minutes. Note: Watch plate carefully, if color changes rapidly, the reaction may need to be stopped sooner to prevent saturation. Stop the enzyme reaction by adding 100 µL of Stop Solution into each well, including the blank wells. Results should be read immediately (color will fade over time). Read absorbance of each microwell on a spectrophotome
Restrictions:	For Research Use only
Handling	
Storage:	4 °C/-80 °C
Storage Comment:	Upon receipt, aliquot and store recombinant RFP Standard at -80°C and avoid freeze/thaw.
	Store all other components at 4°C until their expiration dates.
Publications	
Product cited in:	Singh, Ahmed, Paul, Gedam, Pasquale, Hristova: "The SAM domain inhibits EphA2 interactions

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Singh, Ahmed, King, Gupta, Salotto, Pasquale, Hristova: "EphA2 Receptor Unliganded Dimers Suppress EphA2 Pro-tumorigenic Signaling." in: **The Journal of biological chemistry**, Vol. 290, Issue 45, pp. 27271-9, (2015) (PubMed).



Images

ELISA

Image 1. Standard Curve Generated with the RFP ELISA Kit.