Chk 2 Gene Knockdown Quantification Kit

Cat. No. Kit-0216 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Chk 2 Gene Knockdown Quantification Kit is used for measuring Chk2 knockdown induced by siRNA or antisense oligonucleotide at the protein level.
Description	Targeted gene knockdown using small interfering RNA (siRNA) or antisense oligonucleotide has been valuable technology for studying gene function. Gene knockdown leads to reduction in mRNA and subsequently protein expression. It can often be verified at mRNA level by northern blot or quantitative RT-PCR. However, a decrease in the amount of a specific mRNA does not typically correlate well with protein levels present in the cell. Gene knockdown can be also measured at the protein level with western blot. Western blot analysis is the most comprehensive way of showing that expression of the target gene has been downregulated. However this method, while sensitive, often lacks the ability to discriminate between samples in which the differences in protein levels are minimal. It is also limited in its application to high-throughput analysis.
Usage	For research use only (RUO)
Storage	(1) Store the Detection Antibody at –20°C; (2) Store Q2, Q4, Q6, GAPDH Control Antibody, Capture Antibody, and 88-Well Assay Strips at 4°C away from light; (3) Store all other components at room temperature. The kit is stable for up to 6 months from the shipment date, when stored properly.Note: Check if wash buffer, Q2 contains salt precipitates before using. If so, warm (at room temperature or 37°C) and shake the buffer until the salts are re-dissolved.

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Kit Components	Q1 (Extraction Bbuffer) 12 mlQ2 (10X Wash Buffer) 28 mlQ3 (Protein Capture Buffer) 1 mlQ4 (Blocking Buffer) 20 mlQ5 (Antibody Buffer) 12 mlQ6 (Developing Solution) 10 mlQ7 (Stop Solution) 6 mlGAPDH Control Antibody* 20 µlCapture Antibody* 50 µlDetection Antibody* 20 µl8-Well Assay Strips (with Frame) 12User Guide 1* For maximum recovery of the products, centrifuge the original vial prior to opening the cap.
Detection method	Colorimetric
Compatible Sample Types	Cell, Tissue
Features & Benefits	Quick and efficient procedure. Completion of entire assay needs only 4 hours.Innovative colorimetric assay without the need for radioactivity, electrophoresis, or chromatography.The internal control is conveniently included to correct for the variations for the cell number or protein concentrations.Strip microplate format makes the assay flexible: manual or high throughput.Simple, reliable, and consistent assay conditions.

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