

Insulin Receptor KinEASE™ FP Fluorescein Green Assay

Catalog # 32-071

Sufficient reagents for two 384-well plates per kit.

Contents	Page
I. STORAGE AND STABILITY	2
II. ASSAY OVERVIEW	2
III. SYSTEM COMPONENTS	3
A. Provided Kit Components	3
B. Recommended Buffers	3
IV. ASSAY PROCEDURE	4
A. Kinase Reaction Module	4
B. Detection Module	5
V. APPENDIX A – Assay Optimization	7



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**FOR IN VITRO RESEARCH USE ONLY.
NOT RECOMMENDED OR INTENDED
FOR DIAGNOSIS OF DISEASE IN
HUMANS.**

DO NOT USE IN HUMANS.

I. STORAGE AND STABILITY

Storage: Upon receipt, store individual components at recommended temperatures. Store the 384-well plates at room temperature. Store all other components at -20°C.

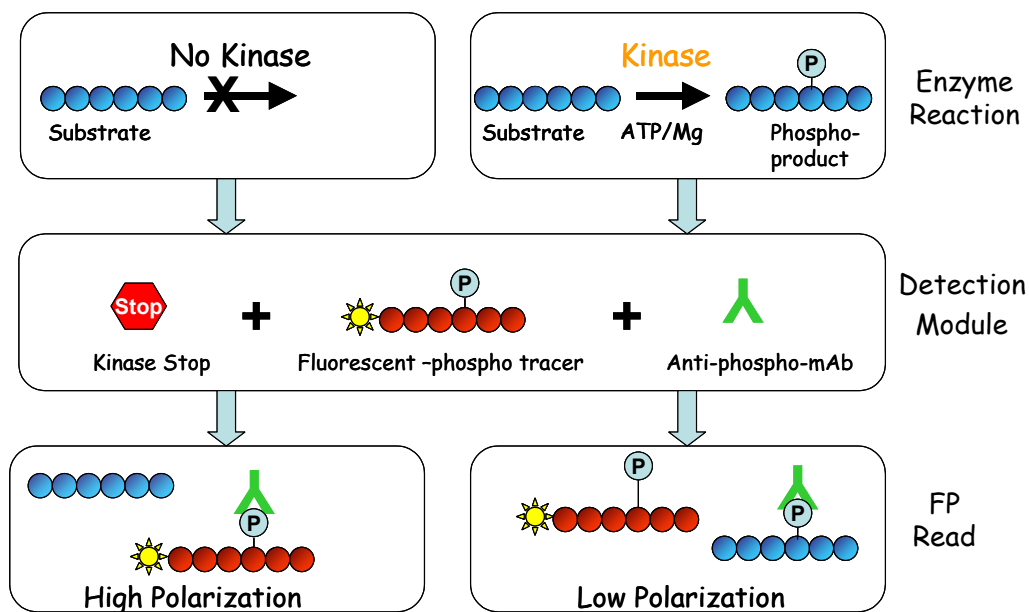
Stability: Components stable for 6 months from date of shipment if stored and handled correctly. We recommend that all enzymes to be used with this kit are stored as aliquots and a fresh aliquot used for each experiment.

II. ASSAY OVERVIEW

In this assay, a phosphorylated peptide has been labeled with a green fluorescent dye. This phosphorylated tracer has a low molecular weight and thus a low fluorescence polarization value. The phosphorylated tracer binds to a phospho-specific antibody to form a high molecular weight complex with a high polarization value.

In a kinase reaction, a peptide or a protein substrate (non-fluorescently labeled) is phosphorylated by the kinase in the presence of ATP and Magnesium to form a phosphorylated product. This phosphorylated product competes with the tracer for binding to the phospho-specific antibody. As increasing amounts of phosphorylated product are formed from the kinase reaction, there is a reduction in the binding of tracer to antibody resulting in a decrease in the fluorescence polarization value.

Insulin Receptor KinEASE™ FP Fluorescein Green Assay supplied in this kit offers a method for assaying Insulin Receptor using a preferred substrate and a generic detection system.



Related Product: Insulin Receptor, Catalog # 14-466