

Cellular Activation of Signaling ELISA:

CASE™ Kit for PIK3R1

<u>Catalog Number</u>	<u>Contents</u>
FE-010	One CASE Kit for 96 cell-based assays

Description

The CASE™ Kit for PIK3R1 is designed to analyze PI-3-Kinase activation via tyrosine receptor kinases in cultured human and mouse cell lines. This cell-based ELISA kit quantifies the amount of activated (phosphorylated) tyrosine receptor kinases relative to total PI-3-Kinase p85 regulatory subunit protein. The phosphorylation site is the tyrosine in the p85-binding consensus motif (YxxM) of any tyrosine receptor kinase. By determining tyrosine receptor kinase activation in your experimental model system, you can verify PI-3-Kinase pathway activation in your cell line and determine the effect of various treatments, inhibitors, or activators on the pathway.

More information on PIK3R1 protein from NCBI:

“Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of 85kD. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance.”

Reference: www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=32455251

Materials Included

Please check the kit components immediately after you receive this package. SuperArray is not responsible for any missing items not reported within two (2) business days upon receipt.

Shelf Life: All reagents are stable at the recommended temperature for 6 months after receipt of the kit.

Enough reagents are provided for 96 assays.

Box 1: Assay and Detection Reagents (Store at 4°C)	Box 2: Primary Antibodies¹ (Store at -20°C)	Dilution Factor
Components	Components	
10X Antigen Retrieval Buffer ²	Anti-Phospho-Protein Specific Antibody	1:100
10X Washing Buffer ²	Anti-Pan-Protein Specific Antibody	1:100
Antibody Dilution Buffer		
Blocking Buffer, dry powder ³		
Cell Staining Solution		
Developing Solution		
Secondary Antibody ¹ (Dilute 1:16 before use.)		
Stop Solution		
Washing Buffer Reservoir (4)		

¹Each antibody stock must be freshly diluted by the appropriate factor into Antibody Dilution Buffer on the same day of the experiment. See the CASE™ Kit User Manual for more details.

²10X Washing Buffer and 10X Antigen Retrieval Buffer must be diluted to 1X with dH₂O before use.

³Just before use, dissolve powder in 30 ml 1X Washing Buffer by mixing well. Once dissolved, Blocking Buffer may be stored at 4 °C for up to two (2) weeks.

Shipping and Storage Conditions

Box 1 is shipped at either ambient or a refrigerated temperature and should be stored at 4°C.
Box 2 is shipped on dry ice or cold packs and should be stored at -20°C.

Related Products

Inhibitors for Functional Assays: Inhibitors of pathway activation that serve as a control for specificity.

For follow-up at the expression level:

RT² Profiler™ PCR Arrays and Oligo GEArray® Microarrays
(See www.superarray.com/ArrayList.php for complete listings)

RT² Real-Time™ PCR Primer Sets – available for every human, mouse, and rat gene
(See www.superarray.com/QRTsearch.php for our primer set search engine)

For knock down of gene expression:

SureSilencing™ shRNA Plasmids – available for every human, mouse, and rat gene
(See www.superarray.com/RNAisearch.php for complete listings)