

Cellular Activation of Signaling ELISA:

CASE™ Kit for ErbB2 Y877

<u>Catalog Number</u>	<u>Contents</u>
FE-012	One CASE Kit for 96 cell-based assays

Description

The CASE™ Kit for ErbB2 is designed to analyze ErbB2 phosphorylation in cultured human and mouse cell lines. This cell-based ELISA kit quantifies the amount of activated (phosphorylated) ErbB2 protein relative to total ErbB2 protein. The phosphorylation site is tyrosine 877. By determining ErbB2 protein phosphorylation in your experimental model system, you can verify EGF Receptor pathway activation in your cell line and determine the effect of various treatments, inhibitors, or activators on the pathway.

More information on ErbB2 protein from NCBI:

ErbB2 is “a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signaling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase.”

Reference: www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=54792097

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)