

# Cellular Activation of Signaling ELISA:

## CASE™ Kit for BCR Y177

| <u>Catalog Number</u> | <u>Contents</u>                       |
|-----------------------|---------------------------------------|
| FE-019                | One CASE Kit for 96 cell-based assays |

### Description

The CASE™ Kit for BCR is designed to analyze BCR phosphorylation in cultured mouse cell lines. This cell-based ELISA kit quantifies the amount of activated (phosphorylated) BCR protein relative to total BCR protein. The phosphorylation site is tyrosine 177. By determining BCR protein phosphorylation in your experimental model system, you can verify BCR pathway activation in your cell line and determine the effect of various treatments, inhibitors, or activators on the pathway.

#### **More information on the BCR protein from NCBI:**

“A reciprocal translocation between chromosomes 22 and 9 produces the Philadelphia chromosome, which is often found in patients with chronic myelogenous leukemia. The chromosome 22 breakpoint for this translocation is located within the BCR gene. The translocation produces a fusion protein which is encoded by sequence from both BCR and ABL, the gene at the chromosome 9 breakpoint. Although the BCR-ABL fusion protein has been extensively studied, the function of the normal BCR gene product is not clear. The protein has serine/threonine kinase activity and is a GTPase-activating protein for p21rac. Two transcript variants encoding different isoforms have been found for this gene.”

Reference: [www.ncbi.nlm.nih.gov/entrez/query.fcgi?dopt=GenPept&cmd=Retrieve&db=protein&list\\_uids=82546843](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?dopt=GenPept&cmd=Retrieve&db=protein&list_uids=82546843)

### 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.

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

<sup>1</sup>Each 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.

<sup>2</sup>10X Washing Buffer and 10X Antigen Retrieval Buffer must be diluted to 1X with dH<sub>2</sub>O before use.

<sup>3</sup>Just 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:**

RT<sup>2</sup> Profiler™ PCR Arrays and Oligo GEArray® Microarrays  
(See [www.superarray.com/ArrayList.php](http://www.superarray.com/ArrayList.php) for complete listings)

RT<sup>2</sup> Real-Time™ PCR Primer Sets – available for every human, mouse, and rat gene  
(See [www.superarray.com/QRTsearch.php](http://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](http://www.superarray.com/RNAisearch.php) for complete listings)