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Product Information

MemDX™ Human BCR & ABL (K294E) BaF3 Cell Line

Cat. No.: **S01YF-0324-KX151**
This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein
BCR & ABL (K294E)

Target Protein Species
Human

Host Cell Type
BaF3

Target Classification
Kinases/Enzyme

Target Family
Kinases/Enzyme

Target Research Area
Autoimmune Research; Cancer Research

Related Diseases
Leukemia

Product Properties

Assay Types
Functional assay and biological assay

Stability
16 passages

Mycoplasma Testing
Negative

Biosafety Level
Level 1

Activity
Yes

Form

Frozen cells

Freeze Medium

90% FBS+10% DMSO

Culture Medium

RPMI-1640+10%FBS

Selective Antibiotic(s)

Regular antibiotics active against mycoplasmas, bacteria and fungi.

Handling Notes

Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance.
Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line.
Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.

Incubation

37°C with 5% CO_2

Applications

Anti-proliferation assay and PD assay

Application Notes

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO_2 to allow the cells to attach and grow. Cells were then stimulated with a control for high-throughput drugs screening andfunctional assays.

Use Restrictions

These cells are distributed for research use only.

Shipping

Dry ice

Storage

Liquid nitrogen

Target

Full Name

BCR activator of RhoGEF and GTPase

Introduction

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 unregulated tyrosine kinase activity of BCR-ABL1 contributes to the immortality of leukaemic cells. The BCR protein has serine/threonine kinase activity and is a GTPase-activating protein for p21rac and other kinases. Two transcript variants encoding different isoforms have been found for this gene.

Alternative Names

ALL; CML; PHL; BCR1; D22S11; D22S662; breakpoint cluster region protein; BCR, RhoGEF and GTPase activating protein; BCR/FGFR1 chimera protein; FGFR1/BCR chimera protein; breakpoint cluster region; renal carcinoma antigen NY-REN-26

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Gene ID

613

UniProt ID

P11274

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