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Product Information

MemDX™ Human KRAS (G12C) NIH3T3 Cell Line

Cat. No.: **S01YF-1222-KX722**
This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein
KRAS (G12C)

Target Protein Species
Human

Accession Number
NM_033360.3

Protein Tag
Tag-free

Host Cell Type
NIH3T3

Target Classification
Kinases/Enzyme

Target Family
Kinases/Enzyme

Target Research Area
Ocular Research

Related Diseases
Schimmelpenning-Feuerstein-Mims Syndrome; Oculoectodermal Syndrome

Product Properties

Morphology
Suspension

Assay Types
Drug screening and biological assays

Resistance
Puromycin

Stability

10 passages

Mycoplasma Testing

Negative

Biosafety Level

Level 1

Activity

Yes

Quantity

5x10^6 cells

Form

Frozen cells

Freeze Medium

70% DMEM + 20% FBS + 10% DMSO

Culture Medium

DMEM + 10% FBS + 1 ug/ml Puromycin

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

Drug screening and biological assays

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

KRAS proto-oncogene, GTPase

Introduction

This gene, a Kirsten ras oncogene homolog from the mammalian ras gene family, encodes a protein that is a member of the small GTPase superfamily. A single amino acid substitution is responsible for an activating mutation. The transforming protein that results is implicated in various malignancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and colorectal carcinoma. Alternative splicing leads to variants encoding two isoforms that differ in the C-terminal region.

Alternative Names

NS; NS3; OES; CFC2; RALD; K-Ras; KRAS1; KRAS2; RASK2; KI-RAS; C-K-RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; K-Ras 2; 'C-K-RAS; c-Ki-ras; c-Ki-ras2; GTPase KRas; K-ras p21 protein; Kirsten rat sarcoma viral oncogene homolog; Kirsten rat sarcoma viral proto-oncogene; PR310 c-K-ras oncogene; c-Kirsten-ras protein; cellular c-Ki-ras2 proto-oncogene; cellular transforming proto-oncogene; oncogene KRAS2; proto-oncogene GTPase; transforming protein p21; v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog

Gene ID

3845

UniProt ID

P01116