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Product Information

MemDX™ Human ERBB2 (G776VC) BaF3 Cell Line

Cat. No.: **S01YF-1222-KX719**
This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein
ERBB2 (G776VC)

Target Protein Species
Human

Accession Number
NM_004448.3

Protein Tag
Tag-free

Host Cell Type
BaF3

Target Classification
Kinases/Enzyme

Target Family
Kinases/Enzyme

Target Research Area
Cancer Research

Related Diseases
Visceral Neuropathy; Glioma Susceptibility

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% RPMI 1640 + 20% 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

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

Erb-b2 receptor tyrosine kinase 2

Introduction

This gene encodes 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 signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized.

Alternative Names

ERBB2; NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu; receptor tyrosine-protein kinase erbB-2; c-erb B2/neu protein; herstatin; human epidermal growth factor receptor 2; metastatic lymph node gene 19 protein; neuro/glioblastoma derived oncogene homolog; neuroblastoma/glioblastoma derived oncogene homolog; proto-oncogene Neu; proto-oncogene c-ErbB-2; tyrosine kinase-type cell surface receptor HER2; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2; v-erb-b2 avian erythroblastic leukemia viral oncoprotein 2; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog; Erb-b2 receptor tyrosine kinase 2

Gene ID

2064

UniProt ID

P04626

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