



FGFR Genetic Alteration Cell Panel

TCP-1034™

Description

Fibroblast Growth Factor Receptors (FGFRs), are transmembrane tyrosine kinase receptors that induce intracellular tyrosine kinase activity when bound to Fibroblast Growth Factor. FGFR plays crucial roles in development and cell growth. Upregulation of the FGF/FGFR signaling pathway leads to induction of mitogenic and survival signals, as well as promoting epithelial-mesenchymal transition, invasion and tumor angiogenesis. Amplification or activation of FGFR1 and FGFR2 genes has been linked to several cancer types such as lung cancer, breast cancer and gastric cancer.

The FGFR genetic alteration cell panel (ATCC TCP-1034) is composed of eight selected human tumor cell lines from common cancer types that carry various gene copy number amplification within the FGFR1 or FGFR2 genes. The FGFR1 or FGFR2 status of each cell line has been validated by ATCC. This panel is useful for FGFR pathway research and FGFR inhibitors anti-cancer drug discovery.

Components: ATCC HTB-23 MDA-MB-134-VI

ATCC CRL-2066 DMS 114

ATCC CCL-235 SW837

ATCC CCL-246 KG-1

ATCC CCL-247 HCT116

ATCC CRL-5974 SNU-16

ATCC HTB-103 KATO III

ATCC CRL-1739 AGS

Shipping information: 8 vials

Storage Conditions

Product format: Frozen

Storage conditions: Vapor phase of liquid nitrogen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Cells contain parainfluenza virus type 5 (HPIV-5)

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: FGFR Genetic Alteration Cell Panel (ATCC TCP-1034)

References

References and other information relating to this material are available at www.atcc.org.

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Product Sheet

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