EGFR Genetic Alteration Cell Panel

TCP-1027™

Description

EGFR/ERBB1/HER1 and ERBB2/EGFR2/HER2 are members of the ErbB super family of receptor tyrosine kinases. These receptors bind multiple EGF family-member ligands to initiate signaling cascades critical for an array of cellular processes, such as proliferation, differentiation, survival, metabolism, and migration. EGFR and ERBB2 are targets of an expanding class of anticancer therapies. The most common mutations associated with sensitivity to EGFR inhibitors include exon 19 deletions and the L858R point mutation. Conversely, the EGFR T790M Mutation has been linked to drug resistance.

The EGFR genetic alteration cell panel (ATCC TCP-1027) is composed of eleven human tumor cell lines from various common cancer types that carry hotspot mutations or gene copy number amplification within the EGFR or ERBB2 gene. The EGFR and ERBB2 status of each cell line has been sequenced and validated by ATCC. This panel is useful for EGFR pathway research and for anti-cancer drug discovery.

Components: ATCC CRL-2868 HCC827
ATCC CRL-2871 HCC4006
ATCC CCL-231 SW48
ATCC CRL-5908 NCI-H1975
ATCC HTB-132 MDA-MB-468
ATCC HTB-19 BT-20
ATCC HTB-178 NCI-H596
ATCC HTB-177 NCI-H460
ATCC CRL-5928 NCI-H2170
ATCC HTB-20 BT-474
ATCC HTB-27 MDA-MB-361

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 1

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.

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: EGFR Genetic Alteration Cell Panel (ATCC TCP-1027)

References

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

Warranty

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Revision

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