



PTEN Genetic Alteration Cell Panel

TCP-1030™

Description

PTEN is a tumor suppressor gene that encodes for a lipid phosphatase protein that down-regulates PI3K activity, which in turn affects the AKT signaling pathway and regulation of the cell cycle. Mutations in this gene are associated with a variety of cancers, including brain, skin and ovarian.

The PTEN genetic alteration cell panel (ATCC TCP-1030) is composed of ten human tumor cell lines from common cancer types that carry PTEN mutations or PTEN deletions. The PTEN status of each cell line has been sequenced and validated by ATCC. This panel is useful for PTEN and PI3K pathway research and for anti-cancer drug discovery.

Components: ATCC CRL-1718 CCF-STTG1

ATCC HTB-111 AN3 CA

ATCC HTB-31 C-33-A

ATCC HTB-66 RPMI-7951

ATCC HTB-148 H4

ATCC HTB-12 SW 1088

ATCC CRL-1585 C32

ATCC CRL-1620 A172

ATCC HTB-1 J82

ATCC CRL-3577 TOV-21G

Storage Conditions

Product format: Frozen

Storage conditions: Vapor phase of liquid nitrogen

Intended Use

TCP-1030

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 submerged 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 submerged 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

TCP-1030

If use of this material results in a scientific publication, please cite the material in the following manner: PTEN Genetic Alteration Cell Panel (ATCC TCP-1030)

References

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

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Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor
