



BRAF Genetic Alteration Cell Panel

TCP-1032™

Description

BRAF gene is a proto-oncogene encoding the BRAF protein, a serine/threonine kinase of the RAF family that acts downstream of RAS and upstream of MEK in the MAPK/ERK signaling pathway. BRAF mediates cell division, proliferation, and differentiation in response to a host of stimuli. Mutations in BRAF lead to excessive cellular proliferation and enhanced survival, and often underlie birth defects, and cancers of the thyroid and skin. The BRAF gene is most frequently mutated at codon 600. BRAF V600E mutation has been found in more than 60% of melanomas, as well as 7-8% of other cancers. The BRAF Genetic Alteration Cell Panel (ATCC TCP-1032) is composed of eight selected human tumor cell lines from various common cancer types that carry BRAF hotspot mutations in codon 600. The BRAF mutation status of each cell line has been sequenced and validated by ATCC. This panel is useful for BRAF pathway research and BRAF inhibitors anti-cancer drug discovery.

Components: ATCC CCL-224 COLO 201

ATCC CCL-238 SW1417

ATCC CRL-11147 A2058

ATCC CRL-2577 RKO

ATCC CRL-7898 A101D

ATCC HTB-123 DU4475

ATCC HTB-137 Hs 695T

ATCC HTB-66 RPMI-7951

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.



Biosafety Level 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: BRAF Genetic Alteration Cell Panel (ATCC TCP-1032)

References

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

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Revision

This information on this document was last updated on 2021-05-20

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