



Product Sheet

## AKT Genetic Alteration Cell Panel (ATCC® TCP-1029™)

Please read this FIRST



Storage Temp.  
LN vapor (less than -130°C) only

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Biosafety Level  
1

### Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: AKT Genetic Alteration Cell Panel (ATCC® TCP-1029™)

### Description

AKT is a serine–threonine protein kinase that is expressed as three isoforms (AKT1, -2 and -3). AKT activation is initiated by translocation to the plasma membrane, which is mediated by a receptor tyrosine kinase-PI3K pathway. Activated AKT phosphorylates many key proteins, such as glycogen synthase kinase 3 and FOXOs, and regulates cell survival, proliferation and other cellular processes. Amplification of AKT1 and AKT2 has been discovered in a variety of common tumor types. AKT1 is linked to tumor cell survival and growth, whereas AKT2 is linked to tumor invasiveness.

The AKT genetic alteration cell panel (ATCC TCP-1029) is composed of eight human tumor cell lines from common cancer types that carry ATK gene copy number changes. The AKT1 and AKT2 gene alteration status of each cell line has been sequenced and validated by ATCC. This panel is useful for AKT pathway research, as well as for developing pan-AKT inhibitors or isoform-specific AKT inhibitors for anti-cancer therapeutics.

### Components

ATCC CRL-2321 HCC1143  
ATCC CRL-7245 Hs 343.T  
ATCC CRL-1469 PANC-1  
ATCC HTB-161 NIH:OVCA3-3  
ATCC CRL-1622 KLE  
ATCC HTB-183 NCI-H661  
ATCC HTB-20 BT-474  
ATCC HTB-128 MDA-MB-415

### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

### ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

### Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

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PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).  
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