

Archer® SureShot™ ALK RET ROS1 Fusion Control - RNA

Part # SK0109

Description

Archer SureShot™ ALK RET ROS1 RNA Fusion Control is extracted from uniformly mixed, genetically defined ALK RET and ROS1 fusion-positive cell lines. To represent tissue biopsy samples, total nucleic acid (TNA) is pre-extracted from formalin-fixed, paraffin-embedded (FFPE) cells and diluted to a uniform concentration of 10ng/uL. This material is intended to be used as a control in relevant Archer FusionPlex® panels targeting ALK, RET, or ROS1 fusions.

For best RNA stability, avoid freeze/thaw cycles.

Contents

Description	Part Number	Storage Conditions
Archer® SureShot™ ALK RET ROS1 Fusion Control - RNA (10ng/uL)	SA0219	-75°C ± 10°C

Expected Fusions*

Gene	Accession	Expected Fusion	Direction	Assay Type
ALK	NM_004304	EML4 exon 13 → ALK exon 20	5'	Fusion
RET	NM_020975	CCDC6 exon 1 → RET exon 12	5'	Fusion
ROS1	NM_002944	SLC34A2 exon 4 → ROS1 exon 32, and 34	5'	Fusion

* Additional splice variants may be detected, resulting in additional exon breakpoint identification.

Archer Analysis Settings

Sequencing data produced by this method must be converted to de-multiplexed FASTQ files, and then processed using [Archer Analysis](#) (v4.1 or greater). The Archer® SureShot™ ALK RET ROS1 Fusion Control requires selection of the **RNA Fusion** pipeline, found under the RNA Analysis Type in Archer Analysis. This provides all secondary analysis (read trimming/cleaning, de-duplication, error correction, alignment, and mutation calling), as well as some tertiary analysis (e.g., annotations and protein effect predictions).

The Archer Analysis software is available as a separate download, which can be requested via a webform on the product webpage: [Archer Analysis](#).



Limitations of Use

For Research Use Only. Not for use in diagnostic procedures. Not intended to be used for treatment of human or animal diseases.

Safety data sheets pertaining to this product are available upon request.

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