



Assay Technologies Ltd.



## APIS ESR1 Mutations Kit

The APIS ESR1 Mutations Kit is an advanced qPCR-based qualitative test, detecting eleven mutations within the estrogen receptor (*ESR1*) gene, across three exons: exon 5 (E380Q), exon 7 (S463P) and exon 8 (P535H, L536R, L536Q, L536H, L536P, Y537C, Y537S, Y537N and D538G).

The APIS ESR1 Mutations Kit includes mutation specific probes to enable detection of the target mutations. Additionally, it uses PCR clamp and blocker technology, which ensures amplification of the mutant sequence, even in the presence of a high wild-type background.



### Benefits of Using APIS ESR1 Mutations Kit

- 1 **Wide target coverage** – the kit has been designed to cover 11 *ESR1* mutations
- 2 **Quick turnaround time** – results available in < 2 hours
- 3 **Easy to use** – our assays are designed to be user-friendly, with a simple protocol
- 4 **Accessibility** – compatible with a variety of real-time PCR instruments

The APIS ESR1 Mutations Kit, and APIS ESR1 Mutations Controls, are intended for Research Use Only (RUO). Not for use in diagnostic procedures.

## APIS ESR1 Mutations Kit Specifications

The kit has undergone testing as part of APIS' unique RUO assay development pipeline, including both *in silico* and wet laboratory testing.

As a result, researchers can depend on the kit for consistent and high-quality detection of ESR1 mutations.

Format	10 Tubes: 6 PP (Primer-Probe) mixes, 2 Enzyme Mixes, 1 Positive Control, 1 Negative Control
PCR Method	qPCR
Instrument	Any qPCR instrument with compatible cycling and emission detection capabilities
Probe Modifications	5' FAM™/3' BHQ®1 5' HEX™/3' BHQ®1
No. of Samples	Standard kit is sufficient for 24 samples (20 µL reaction), including pipetting overage
Concentration	4X PP mix 2X Enzyme mix
Sample Type	DNA (e.g. cell-free DNA or DNA extracted from FFPE tissue)

## APIS ESR1 Mutations Controls

The APIS ESR1 Mutations Controls are optional extra positive and negative control reagents to be used in combination with the APIS ESR1 Mutations Kit. The controls are used to determine PCR run validity.

## Ordering Information

Assay Name	Test Type	Kit Size	Catalogue Number	Price
APIS ESR1 Mutations Kit	RUO	24 samples plus controls	02201 (distributed by APIS)	Available upon request
APIS ESR1 Mutations Kit	RUO	24 samples plus controls	02202 (distributed by Biocartis)	Available upon request
APIS ESR1 Mutations Controls	RUO	24 reactions	02801 (distributed by APIS)	Available upon request
APIS ESR1 Mutations Controls	RUO	24 reactions	02802 (distributed by Biocartis)	Available upon request

Please visit the APIS product web page, for the list of countries that Biocartis distributes the APIS ESR1 Mutations Kit, and APIS ESR1 Mutations Controls. APIS is the distributor for all other countries. Data and conclusions provided in this leaflet have not been validated by Biocartis NV.

International distributor:



**Biocartis US Inc.**

**Phone: 1-844-443-9552**

**Address: 2 Pierce Place Suite 1510, Itasca, IL 60143, USA**

**Email: customerserviceUS@biocartis.com**

All scientific and analytical information in this product flyer comes from the APIS ESR1 Mutations Kit Handbook ART0067.

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