

SoRTEV™ RNA Enrichment Kit

From plasma to RNA - This kit allows the purification of tumor-derived exosome RNA.

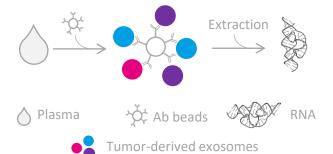




Technical Specifications

| Category | Pre-analytical |
|---------------------|--|
| Isolation Method | Exosomics proprietary antibody affinity method |
| Sample type | Plasma |
| Number of reactions | 24 reactions |
| Sample Volume | From 0,5 ml up to 2 ml |
| | 0,5-2 ml: SoRTEV [™] Low Volume (Cat. No. EXO-SOR-LV) |
| | |

HOW IT WORKS



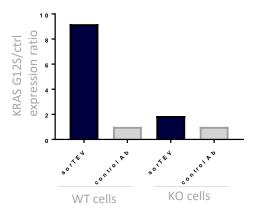
- -Antibody coated beads pull down tumor-derived exosomes selectively;
- -Best pre-analytical method to harvest the purest tumour-derived RNA from biofluids;
- -It's easy, does not require complex ultracentrifugation or chromatography steps;
- -Enables the next generation of RNA-based tumor diagnostics assays.





Key Performance metrics #1: SoRTEV[™] – Specificity

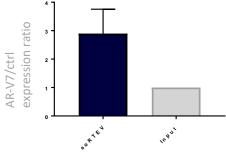
Tumor exosomes from supernatants obtained from KRAS G12S-positive wild type and target knock-out cells using SoRTEV™ antibody or its isotype-matched control antibody. KRAS G12S mRNA expression was quantified by real-time PCR and normalized for an internal control.



KRAS G12S mRNA was enriched more than 9 fold using SoRTEV™ tumor specific antibody in comparison to the isotype matched control antibody. This enrichment was almost completely abrogated in supernatants from cell knocked out for SoRTEV™ target, confirming the specificity of SoRTEV™ antibodies.

Key Performance metrics #2: SoRTEV™ – Mutation Enrichment

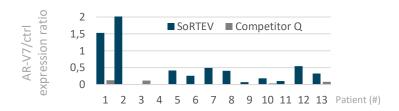
Tumor exosomes containing AR-V7 mRNA were spiked into healthy donor plasma and isolated using SoRTEV™ technology. AR-V7 mRNA expression was quantified by ddPCR and normalized for a generic EV-specific RNA control.



AR-V7 mRNA was enriched 3 fold using $SoRTEV^{TM}$ tumor specific antibody in comparison to the exosome input, indicating tumor selective enrichment.

Case study #1: SoRTEV™ — Androgen Receptor V7 (AR-V7) Detection

Plasma was withdrawn from thirteen prostate cancer patients and then processed with either SoRTEV™ or Competitor Q to obtain RNA. The ratio between AR-V7 and a control (ctrl) mRNA was tested by RT-dPCR (Thermo®).



AR-V7 mRNA can be detected when SoRTEV™ is used as the pre-analytical step whilst it is not or barely detectable when Competitor Q is used. High levels of AR-V7 correlate with poor response to first and second line novel hormonal therapy in castration-resistant prostate cancer. Data generated by University of Brescia, Italy.

