National Cancer Institute

DCTD Division of Cancer Treatment and Diagnosis

Poly(ADP-ribose) (PAR) Immunoassay
Quality Control & Trouble Shooting Guide

SOP340503 PBMC Collection, Handling and Freezing for Protein Extraction

SOP340505 PAR Immunoassay

1. *If the PAR readouts for MCF7 tumor lysate controls I have prepared in my laboratory do not match the acceptable range in the SOP, do I need to discard them and start over?*

   Not necessarily, contact the NCTVL Director, Dr. Jiuping Ji, (jijiupi@mail.nih.gov) for advisement on whether new lysate controls need to be prepared or an adjustment in dilution of the prepared lysates is appropriate.

SOP340506 PBMC Protein Extraction for PAR IA

1. *A frequent issue with PBMC protein extracts is high viscosity due to DNA. This can be addressed by warming the extracted and boiled specimen to room temperature, or by treatment with DNase prior to use in SOP340505.*

   For DNase treatment, use the Trevigen DNase protocol for PBMCs (included in instructions with Trevigen, Cat#: 4510-096-K)

   a. Add 0.01 volume of 100X Magnesium Cation (Trevigen, Cat#: 4500-096-09) and 2 µL of DNase I (2 Units/µL; Trevigen, Cat#: 4500-096-08). Vortex briefly and incubate at 37°C for 90 min.

SOP340507 Tumor Frozen Needle Biopsy Collection and Handling

SOP340520 Biopsy Specimen Processing for PAR IA

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