

Materials List for:

Procedure and Key Optimization Strategies for an Automated Capillary Electrophoretic-based Immunoassay Method

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Materials

| Name | Company | Catalog Number | Comments |
|--|--|---|---------------------------------------|
| Wes instrument | ProteinSimple (Santa Clara, CA) | 004-600 | |
| P53 DO-1 primary antibody | Santa Cruz Biotechnology, Inc. | sc-126 | |
| phosphorylated p53 (ser 15) primary antibody | Cell Signaling Technology | 9286 | |
| phosphorylated p53 (ser 20) primary antibody | Cell Signaling Technology | 9287 | |
| alpha-tubulin primary antibody | Cell Signaling Technology | 3873 | used as a loading control |
| Compass Software | ProteinSimple (Santa Clara, CA) | | provided with the Wes |
| 12-230 kDa Master kit | ProteinSimple (Santa Clara, CA) | PS MK02 (since replaced by a new kit #) | |
| | www.proteinsimple.com/consumables_sw_wes.html | INCLUDES PART NO: Wash Buffer (60 mL) 042-202 10X Sample Buffer (440 µL) 042-195 Pre-Filled Microplates (8) PS-PP01 Capillary Cartridges (8) PS-CC01 Antibody Diluent II (20 mL) 042-203 Luminol-S (1.5 mL) 042-233 Peroxide (1.5 mL) 042-234 Streptavidin-HRP (132 µL) 042-414 Standard Pack (8): Biotinylated ladder, fluorescent 5X master mix, DTT, and empty 0.6 mL tube PS-ST01 Anti-Rabbit Secondary Antibody 042-206 or Anti-Mouse Secondary Antibody 042-205 | |
| Name | Company | Catalog Number | Comments |
| Cell culture, treatment, and harvest (using vendor recommended protocols; protocols not included in manuscript) | | | |
| BEAS-2B cells | American Type Culture Collection (ATCC, Manassas, VA) | CRL-9609 | |
| keratinocyte growth medium, KGM Gold | Lonza Ltd (Basel, Switzerland) | 192152 | for cell culture |
| keratinocyte basal medium, KBM Gold | Lonza Ltd (Basel, Switzerland) | 192151 | serum free medium for chemical dosing |
| doxorubicin | Sigma-Aldrich (St. Louis, MO) | D1515 | |

| | | | |
|--------------------------------|---------------------------------------|-----------------------------|------------------------------------|
| Coomassie Blue Bradford Assays | ThermoFisher Scientific (Waltham, MA) | 23200 | for protein quantification |
| Nuclear Extract kit | Active Motif (Carlsbad, CA) | D1515 | used to prepare whole cell lysates |
| | | INCLUDES: | |
| | | Lysis Buffer AM1 | |
| | | 1M dithiothreitol (DTT) | |
| | | Protease Inhibitor Cocktail | |
| | | 10X PBS | |
| | | Phosphatase Inhibitors | |