

**Datasheet for W09-001-GK5****Ramos Cell Nuclear Extract****Overview**

|                     |                                          |
|---------------------|------------------------------------------|
| <b>Description:</b> | Ramos Cell Nuclear Extract - W09-001-GK5 |
| <b>Item No.:</b>    | W09-001-GK5                              |
| <b>Size:</b>        | 200 µg                                   |
| <b>Origin:</b>      | Human                                    |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                   |
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| <b>Background:</b>        | Multi-purpose Ramos nuclear extracts produced by Rockland Immunochemicals are derived from cell lines or tissues using highly refined extraction protocols to ensure exceptionally high quality, protein integrity and lot-to-lot reproducibility. All extracts are tested by SDS-PAGE using 4-20% gradient gels. |
| <b>Synonyms:</b>          | Ramos lysate nuclear extract, cell lysate, Ramos Nuclear lysate                                                                                                                                                                                                                                                   |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                             |

**Target Details**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Purity/Specificity:</b> | Ramos cells were grown in RPMI-1640 medium supplemented with 10% fetal bovine serum. Cells were washed with PBS and then incubated on ice in modified RIPA buffer to lyse the cells. Protein integrity was ensured using a cocktail of protease inhibitors with broad specificity for the inhibition of aspartic, cysteine, and serine proteases as well as aminopeptidases (0.1 mM AEBSF HCl, 0.08 µM Aprotinin, 5 µM Bestatin, 1.5 µM E-64, 2 µM Leupeptin Hemisulfate, 1 µM Pepstatin A). Phosphatase inhibitors 1 mM NaF and 1 mM Na3VO4 were also added. Cell debris was removed by centrifugation. Protein concentration was determined by a modified Lowry assay using a commercially available kit. Protein concentration was adjusted to 4 mg/ml in RIPA buffer containing protease and phosphatase inhibitors. |
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**Application Details**

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| <b>Application Note:</b> | Multi-purpose Ramos nuclear extracts are especially prepared as positive control for multiple assays including western blot, immunoprecipitation (IP), capture ELISA or other assays requiring native protein sample. For separation by SDS-PAGE and subsequent western blot analysis, lysates should be diluted by user to desired concentration in SDS-PAGE buffer with 2- |
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mercaptoethanol or dithiothreitol as the reducing agent and heated to 95° C for 5 minutes. Sample is ready for use in immunoprecipitation and ELISA experiments, conditions should be optimized by the user. Rockland recommends its TrueBlot IP reagents for immunoprecipitation experiments.

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| <b>Assay Dilutions:</b> | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| <b>ChIP:</b>            | User Optimized                                                                                  |
| <b>IP:</b>              | User Optimized                                                                                  |
| <b>WB:</b>              | User Optimized                                                                                  |

## Cell Line Data

|                              |                      |
|------------------------------|----------------------|
| <b>Cell Line:</b>            | Human - B Lymphocyte |
| <b>Lysate Fractionation:</b> | Nuclear Extract      |
| <b>Lysate Stimulation:</b>   | Not Stimulated       |
| <b>Culture Type:</b>         | Tissue Culture       |
| <b>Induction:</b>            | None (Control)       |

## Formulation

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                    |
| <b>Concentration:</b>  | 4.0 mg/mL by modified Lowry assay                            |
| <b>Buffer:</b>         | 1X RIPA Buffer with HALT Protease and Phosphatase Inhibitors |
| <b>Preservative:</b>   | None                                                         |
| <b>Stabilizer:</b>     | None                                                         |

## Shipping & Handling

|                            |                                                                                                               |
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| <b>Shipping Condition:</b> | Dry Ice                                                                                                       |
| <b>Storage Condition:</b>  | Store vial at -70° C or COLDER. For extended storage, aliquot Nuclear Extract to minimize freeze/thaw cycles. |
| <b>Expiration:</b>         | Expiration date is three (3) months from date of receipt.                                                     |

## Disclaimer

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