

DESCRIPTION

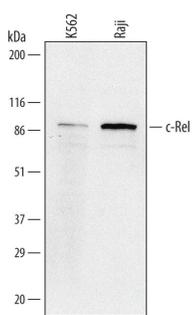
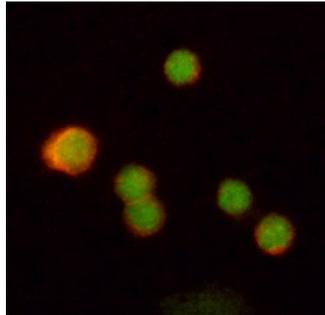
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| Species Reactivity | Human |
| Specificity | Detects human c-Rel in Western blots. |
| Source | Monoclonal Rat IgG _{2A} Clone # 321422 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant human c-Rel Met1-Val619 Accession # NP_002899 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|----------------------------|----------------------------------|---------------|
| Western Blot | 0.1 µg/mL | See Below |
| Immunocytochemistry | 8-25 µg/mL | See Below |

DATA

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| <p>Western Blot</p>  <p>Detection of Human c-Rel by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line and Raji human Burkitt's lymphoma cell line. PVDF membrane was probed with 0.1 µg/mL of Rat Anti-Human c-Rel Monoclonal Antibody (Catalog # MAB4606) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for c-Rel at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p> | <p>Immunocytochemistry</p>  <p>c-Rel in Human PBMCs. c-Rel was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using 15 µg/mL Rat Anti-Human c-Rel Monoclonal Antibody (Catalog # MAB4606) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with nuclear stain (green). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p> |
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PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

c-Rel/Rel, the cellular counterpart of the v-Rel oncogene of the avian reticuloendotheliosis retrovirus, is a 85 kDa class II member of the Rel/NK-κB family of transcription factors. All Rel family members contain a RHD (Rel homology domain) that is involved in dimerization, DNA and IκB binding, and nuclear localization. Class II members contain an additional C-terminal transcriptional activation segment. Rel both homodimerizes and heterodimerizes with multiple family members. Following dimerization, Rel complexes initiate transcription by acting on decameric DNA motifs termed κB binding sites. c-Rel activity is regulated by phosphorylation and ubiquitination. The important role of c-Rel in B-cell development, growth, and survival is well documented. c-Rel is also involved in responses to auto-antigens, allo-antigens, allergens and pathogens and may contribute to the development of certain human lymphoid cell cancers.