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Datasheet for 100-4166P

# NFKB cRel Peptide

## Overview

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| **Description:** | NFkB cRel Peptide - 100-4166P |
| **Item No.:** | 100-4166P |
| **Size:** | 50 µg |
| **Origin:** | Human |

## Product Details

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| **Background:** | Intended for use as a control peptide when used with anti-NFB cRel to block specific interaction of anti-NFB cRel (p/n 100-4166) with the NFB cRel subunit. NFkB was originally identified as a factor that binds to the immunoglobulin kappa light chain enhancer in B cells. It was subsequently found in non-B cells in an inactive cytoplasmic form consisting of NFkB bound to IkB. NFkB was originally identified as a heterodimeric DNA binding protein complex consisting of p65 (RelA) and p50 (NFKB1) subunits. Other identified subunits include p52 (NFKB2), c-Rel, and RelB. The p65, cRel, and RelB subunits are responsible for transactivation. The p50 and p52 subunits possess DNA binding activity but limited ability to transactivate. p52 has been reported to form transcriptionally active heterodimers with the NFkB subunit p65, similar to p50/p65 heterodimers. The heterodimers of p52/p65 and p50/p65 are regulated by physical inactivation in the cytoplasm by IkB-a. IkB-a binds to the p65 subunit, preventing nuclear localization and DNA binding. Low levels of p52 and p50 homodimers can also exist in cells. |
| **Synonyms:** | NFKB peptide, cRel peptide, Nuclear factor NF-kappa-B p105 subunit, DNA-binding factor KBF1, EBP-1 antibody, control peptide, blocking peptide |
| **Species of Origin:** | Human |
| **Type:** | Peptide |

## Target Details

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| **Purity/Specificity:** | Greater than 95% specific peptide |

## Application Details

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| **Application Note:** | Control peptide should be used at 1.0 µg per 1.0 µl of antiserum in per assay. |

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| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1.0 mg/mL by dry weight |
| **Buffer:** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.01% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is six (6) months from date of receipt. |

## Disclaimer

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