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## PRODUCT: $\text{I}\kappa\text{B}\alpha$ Dominant-Negative Vector Set

**CATALOG No.**  
631923

**AMOUNT**  
20  $\mu\text{g}$  each

### DESCRIPTION

Set of two vectors for studying NF $\kappa$ B and related signaling pathways. The pCMV- $\text{I}\kappa\text{B}\alpha$  Vector expresses the wild-type  $\text{I}\kappa\text{B}\alpha$  protein. The pCMV- $\text{I}\kappa\text{B}\alpha\text{M}$  Vector contains a mutated form of  $\text{I}\kappa\text{B}\alpha$  with a serine-to-alanine mutation at residues 32 and 36. This mutated form does not undergo signal-induced phosphorylation, and thus, remains bound to NF $\kappa$ B. Both genes are expressed from the constitutive CMV promoter.

### LOT NUMBER

Specified on product label.

### STORAGE BUFFER

10 mM Tris-HCl (pH 8.0)  
1 mM EDTA (pH 8.0)

### STORAGE CONDITIONS

- Store plasmids at  $-20^{\circ}\text{C}$ .
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

### VECTOR CONCENTRATION

500 ng/ $\mu\text{l}$  each

### PLASMID SIZE

4.9 kb each

### SHELF LIFE

1 year from date of receipt under proper storage conditions.

### ANTIBIOTIC RESISTANCE

Kanamycin (50  $\mu\text{g}/\text{ml}$ ; for propagation in *E. coli*)

### SHIPPING CONDITIONS

Blue ice ( $4^{\circ}\text{C}$ ) or dry ice ( $-70^{\circ}\text{C}$ ).

### PACKAGE CONTENTS

- 1 tube of pCMV- $\text{I}\kappa\text{B}\alpha$  Vector
- 1 tube of pCMV- $\text{I}\kappa\text{B}\alpha\text{M}$  Vector
- Vector Information Packet (PT3429-5)

### FOR RESEARCH USE ONLY

### QUALITY CONTROL DATA

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

	Enzymes	Fragments
pCMV- $\text{I}\kappa\text{B}\alpha$ Vector	<i>Bgl</i> II, <i>Bam</i> HI	3.9 & 1.0 kb
pCMV- $\text{I}\kappa\text{B}\alpha\text{M}$ Vector	<i>Bgl</i> II, <i>Bam</i> HI	4.9 kb

- The presence of the correct  $\text{I}\kappa\text{B}$  variant was also confirmed by sequencing.
- $A_{260}/A_{280}$ : 1.8–2.0



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