

NF- κ B (human p50) Transcription Factor Assay Kit

Cat. No. Kit-0621 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

NF- κ B (human p50) Transcription Factor Assay Kit is a non-radioactive method for detecting specific transcription factor DNA binding activity.

Description

The NF- κ B/Rel family of transcription factors is comprised of several structurally-related proteins that form homodimers and heterodimers and include p50/p105, p52/p100, RelA (p65), c-Rel/NF- κ B. Members of this family are responsible for regulating over 150 target genes, including the expression of inflammatory cytokines, chemokines, immunoreceptors, and cell adhesion molecules. Because of this, NF- κ B has often been called a "central mediator of the human immune response. Acting as dimers, these transcription factors bind to DNA sequences, collectively called κ B, sites thereby regulating expression of target genes. In most cells, Rel/ NF- κ B transcription complexes are present in an inactive form in the cytoplasm, bound to an inhibitor I κ B. Certain stimuli result in the phosphorylation, ubiquitination and subsequent degradation of I κ B proteins thereby enabling translocation of NF- κ B into the nucleus. The most common Rel/NF- κ B dimer in mammals contains p50-RelA (p50/ p65) heterodimers and is specifically called NF- κ B. One of the target genes activated by NF- κ B is that encoding I κ B α . This feedback mechanism allows newly-synthesized I κ B α to enter the nucleus, remove NF- κ B from DNA and transport it back to the cytoplasm thereby restoring its inactive state. The importance of Rel/NF- κ B transcription factors in human inflammation and certain diseases makes them attractive targets for potential therapeutics.

Usage

For research use only (RUO)

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Storage	Store the kit at -20°C temporarily.
Kit Components	Item Quantity Storage Transcription Factor Binding Assay Buffer (4X) 1 vial 4°C Transcription Factor Reagent A 1 vial -20°C Transcription Factor NF-κB (p50) Positive Control 1 vial -80°C Transcription Factor Antibody Binding Buffer (10X) 1 vial 4°C Transcription Factor NF-κB (human p50) Primary Antibody 1 vial -20°C Wash Buffer Concentrate (400X) 1 vial 4°C Tween 20 1 vial RT Transcription Factor NF-κB Specific Competitor dsDNA 1 vial -20°C Transcription Factor Goat Anti-Rabbit HRP Conjugate 1 vial -20°C Transcription Factor NF-κB 96-Well Strip Plate 1 plate 4°C 96-Well Cover Sheet 1 cover RT Transcription Factor Developing Solution 1 vial 4°C Transcription Factor Stop Solution 1 vial 4°C WARNING: This product is for laboratory research use only: not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

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