

Datasheet for ABIN2866266 **NFkB ELISA Kit**

[Go to Product page](#)

Overview

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| Quantity: | 2 x 96 tests |
| Target: | NFkB |
| Reactivity: | Human |
| Method Type: | DNA-Binding ELISA |
| Application: | ELISA |

Product Details

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| Purpose: | DNA-binding ELISA that facilitate the study of transcription factor activation in mammalian tissue and cell culture extracts. |
| Brand: | TransAM® |
| Sample Type: | Cell Extracts, Tissue Samples |
| Analytical Method: | Quantitative |
| Detection Method: | Colorimetric |
| Specificity: | The TransAM Flexi NFkB Family Kit is tested for sensitivity and specificity in detecting NFkB activation. |
| Characteristics: | Transcription factors are DNA-binding proteins that tightly regulate gene expression. They consist of two distinct domains - one that displays high affinity for a specific DNA sequence and one that confers transcriptional activity. Transcription factors are activated by phosphorylation of specific residues or by processing bound inhibitory proteins. Understanding and quantifying transcription factors is essential for the study of cell functions in relation to differentiation, brain activity, immune response, inflammation and various disease states. |

Product Details

TransAM® Kits are sensitive, non-radioactive transcription factor ELISA kits that facilitate the study of transcription factor activation in mammalian tissue and cell extracts.

TransAM® Kits are DNA-binding ELISAs that facilitate the study of transcription factor activation in mammalian tissue and cell extracts. Each kit includes a 96-stripwell plate in which multiple copies of a specific double-stranded oligonucleotide have been immobilized. When nuclear or whole-cell extract is added, activated transcription factor of interest binds the oligonucleotide at its consensus binding site and is quantified using the included antibody, which is specific for the bound, active form of the transcription factor being studied.

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| Components: | One or five 96-well plate(s) with plate sealer(s), primary antibody, HRP-conjugated secondary antibody, wild-type and mutated competitor oligonucleotides, positive control cell extract, DTT, Protease Inhibitor Cocktail, Lysis, Binding, 10X Washing and 10X Antibody Binding Buffers, and Developing and Stop Solutions. |
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Target Details

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| Target: | NFkB |
| Alternative Name: | Nfkb (NFkB Products) |
| Pathways: | Ubiquitin Proteasome Pathway , S100 Proteins |

Application Details

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| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Comment: | <p>Nuclear extracts are prepared from Raji cells and 5 µg/well are assayed using 1:1000 dilutions of the NFkB p65, p50, p52, RelB and c-Rel antibodies found in the TransAM NFkB Family Kit.</p> <p>The relative activation of each family member may vary depending on the cell type tested and the manner in which it was stimulated. TransAM assays are performed in the absence or presence of 40 pmol of oligonucleotide that contains either a wild-type or mutated NFkB consensus binding site (Figure 1). The wild-type oligonucleotide prevents NFkB binding to the biotinylated probe. Conversely, the mutated oligonucleotide has a limited effect on NFkB binding. For the experiment shown in Figure 1, development times for the assay were: NFkB p65: 8 minutes NFkB p50: 2 minutes p52: 5 minutes Rel B: 5 minutes c-Rel: 3 minutes Individual optimization of development times may be required.</p> |
| Assay Time: | 5 h |
| Plate: | Pre-coated |

Application Details

Restrictions: For Research Use only

Handling

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Except for the cell extract that must be kept at -80°C, the kit components can be stored at -20°C prior to first use. Then, we recommend storing the kit at 4°C except for the oligonucleotides, the c-Rel, p50 and p65 antibodies, DTT, Herring sperm DNA and Protease Inhibitor Cocktail that should be kept at -20°C, and the cell extract at -80°C. This product is guaranteed for 6 months from date of receipt.

Expiry Date: 6 months