

# QED Bioscience Inc.

ADVANCED RESEARCH TECHNOLOGIES

## Anti-IKK $\alpha$ Antibody

### ORDERING INFORMATION

**Catalog No.:** 2025

**Size:** 100 ug IgG in PBS, pH 7.4, purified by immunoaffinity chromatography.

### BACKGROUND

Nuclear factor kappa B (NF- $\kappa$ B) is a ubiquitous transcription factor and key mediator of gene expression during immune and inflammatory responses. NF- $\kappa$ B activates numerous genes in response to extracellular stimuli, such as IL-1, TNF $\alpha$ , and LPS. NF- $\kappa$ B is associated with I $\kappa$ B in cytoplasm, which inhibits NF- $\kappa$ B activity. I $\kappa$ B kinase (IKK), which phosphorylates I $\kappa$ B and mediates I $\kappa$ B degradation and NF- $\kappa$ B activation, was recently identified. IKK is a serine protein kinase, and the IKK complex contains alpha and beta subunits (IKK $\alpha$  and IKK $\beta$ ). IKK $\alpha$  and IKK $\beta$  interact with each other, and both are essential for NF- $\kappa$ B activation. IKK $\alpha$  specifically phosphorylates I $\kappa$ B- $\alpha$  and is expressed in a variety of human tissues.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures*

### SPECIFICATION SUMMARY

**Antigen:** Peptide corresponding to aa 716-734 of human IKK $\alpha$  which differs from the corresponding murine sequence by four amino acids.

**Host Species:** Rabbit

**Stabilizers:** None

**Preservatives:** 0.02% sodium azide.

### SPECIFICITY

This antibody recognizes human IKK $\alpha$  (85 kD). No cross-reactivity with IKK $\beta$  or IKK $\gamma$ .

### APPLICATIONS

*Immunoblotting:* use at 1:1,000-1:2,000 dilution.

*Positive control:* Whole cell lysate from HeLa or Jurkat cells.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.