



Anti-IKKe pT501 (RABBIT) Antibody - 600-401-267

Code: 600-401-267

Size: 100 µg

Product Description: Anti-IKKe pT501 (RABBIT) Antibody - 600-401-267

Concentration: 1 mg/mL by UV absorbance at 280 nm

Physical State: Liquid (sterile filtered)

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| Label | Unconjugated |
| Host | Rabbit |
| Gene Name | IKKe |
| Species Reactivity | human |
| Buffer | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Stabilizer | None |
| Preservative | 0.1% (w/v) Sodium Azide |
| 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. |
| Synonyms | I kappa B kinase epsilon antibody, IkBKE antibody, IKBKE protein antibody, Inhibitor of kappa light polypeptide gene enhancer in B cells kinase epsilon antibody, Inhibitor of nuclear factor kappa B kinase subunit epsilon antibody, IKKE, IKKi, KIAA0151 |
| Application Note | IKKe pT501 antibody is suitable for use in ELISA, western blotting, and although not tested, this antibody is likely functional in immunohistochemistry and immunoprecipitation. An 85 kDa band corresponding to human IKKe is detected. HeLa cells or TNF inducible KBM-5 cells can be used as a positive control. Researchers should determine optimal titers for other applications. |
| Background | Nuclear Factor kappa B (NF-κB) is a ubiquitous transcription factor and an essential mediator of gene expression during the activation of immune and inflammatory responses. NF-κB mediates the expression of a great variety of genes in response to extracellular stimuli. NF-κB is associated with IκB proteins in the cytoplasm of the cell, which inhibit NF-κB activity. IκB proteins are phosphorylated by an IκB kinase complex consisting of at least three proteins, IKKα, IKKβ, and IKKγ. Isolated from a cDNA library of LPS-stimulated mouse macrophage cells, a novel molecule in the IKK complex has been recently identified and designated IKKε and/or IKKε. IKKε is required for the activation of NF-κB by mitogens and T cell receptors but not by TNFα or IL-1. LPS increases the IKKε mRNA level in mouse macrophage cell lines. This protein has significant sequence homology with kinase domains of IKKα and IKKβ. Overexpression of wild type IKKε in cells phosphorylates Ser32 and Ser36 of IκBα. Anti-IKKe pT501 antibody is ideal for investigators involved in NFκappaB and apoptosis research. |
| Purity And Specificity | Anti-IKKe pT501 antibody was affinity purified from monospecific antiserum by immunoaffinity purification against the phosphopeptide and cross adsorption against the non-phosphorylated form of the peptide followed by non-adsorption against a non-specific peptide backbone to further reduce non-specific reactivity. This phospho specific polyclonal antibody is specific for phosphorylated pT501 human IKKe. Reactivity with non-phosphorylated IKKe is minimal. Cross reactivity with pT501 phosphorylated IKKe from mouse, rat or other species has not been determined. |
| Assay Dilutions | User Optimized |
| ELISA | 1:5,000 - 1:25,000 |
| WESTERN BLOT | 1:500 - 1:3,000 |
| OTHER ASSAYS | User Optimized |
| Expiration | Expiration date is one (1) year from date of opening. |
| Immunogen | IKKe phospho peptide corresponding to a region of the human protein surrounding pT501 conjugated to KLH. |
| General Reference | Peters RT, Liao SM, Maniatis T. (2000) IKK epsilon is part of a novel PMA-inducible IκB kinase complex. Mol Cell 5(3):513-22. Shimada T, Kawai T, Takeda K, Matsumoto M, Inoue J, Tatsumi Y, Kanamaru A, Akira S. (1999) IKK-i, a novel lipopolysaccharide-inducible kinase that is related to IκB kinases. Int Immunol 11(8):1357-62. |

Related Products

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|-------------|--|
| 100-401-219 | Anti-IKK α (RABBIT) Antibody - 100-401-219 |
| 100-401-220 | Anti-IKK β (RABBIT) Antibody - 100-401-220 |
| 100-401-401 | Anti-AKT (RABBIT) Antibody - 100-401-401 |
| 100-4167C | Anti-IKB α C-terminal (RABBIT) Antibody - 100-4167C |

Related Links

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| NCBI | http://www.ncbi.nlm.nih.gov/protein/Q9R0T8.1 |
| NCBI - Q14164.1 | http://www.ncbi.nlm.nih.gov/protein/Q14164.1 |
| UniProt - Q14164 | http://www.uniprot.org/uniprot/Q14164 |
| Gene ID - 9641 | http://www.ncbi.nlm.nih.gov/gene/9641 |

Disclaimer

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