

IKK  $\alpha$  (Phospho-Thr23) Conjugated Antibody

Catalog No: #C11129



Package Size: #C11129-AF350 100ul #C11129-AF405 100ul #C11129-AF488 100ul  
 #C11129-AF555 100ul #C11129-AF594 100ul #C11129-AF647 100ul  
 #C11129-AF680 100ul #C11129-AF750 100ul #C11129-Biotin 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
 Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

|                       |                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | IKK $\alpha$ (Phospho-Thr23) Conjugated Antibody                                                                                                                             |
| Host Species          | Rabbit                                                                                                                                                                       |
| Clonality             | Polyclonal                                                                                                                                                                   |
| Species Reactivity    | Hu Ms Rt                                                                                                                                                                     |
| Specificity           | The antibody detects endogenous level of IKK $\alpha$ only when phosphorylated at threonine 23.                                                                              |
| Immunogen Description | Peptide sequence around phosphorylation site of threonine 23 (L-G-T(p)-G-G) derived from Human IKK $\alpha$ .                                                                |
| Conjugates            | Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750                                                                                                                       |
| Other Names           | I kappa-B kinase alpha;I-kappa-B kinase 1;IKK-A;IKK-alpha;IKK1                                                                                                               |
| Accession No.         | Swiss-Prot#:O15111NCBI Gene ID:1147NCBI mRNA#:NM_001278.3 NCBI Protein#:NP_001269.3                                                                                          |
| Uniprot               | O15111                                                                                                                                                                       |
| GeneID                | 1147;                                                                                                                                                                        |
| Excitation Emission   | AF350: 346nm/442nm<br>AF405: 401nm/421nm<br>AF488: 493nm/519nm<br>AF555: 555nm/565nm<br>AF594: 591nm/614nm<br>AF647: 651nm/667nm<br>AF680: 679nm/702nm<br>AF750: 749nm/775nm |
| Calculated MW         | 85                                                                                                                                                                           |
| Formulation           | 0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide                                                                                  |
| Storage               | Store at 4°C in dark for 6 months                                                                                                                                            |

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

## Product Description

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Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.

## Background

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Acts as part of the IKK complex in the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-B thus leading to the dissociation of the inhibitor/NF-kappa-B complex and ultimately the degradation of the inhibitor. As part of the non-canonical pathway of NF-kappa-B activation, the MAP3K14-activated CHUK/IKKA homodimer phosphorylates NFKB2/p100 associated with RelB, inducing its proteolytic processing to NFKB2/p52 and the formation of NF-kappa-B RelB-p52 complexes. Also phosphorylates NCOA3. Phosphorylates 'Ser-10' of histone H3 at NF-kappa-B-regulated promoters during inflammatory responses triggered by cytokines.

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Note: This product is for in vitro research use only