G-Biosciences Image not found or type unknown

Immunotag™ Phospho-IKK alpha (Thr23) Antibody

Antibody Specification

Catalog No.	ITA0784
Product Description	Immunotag™ Phospho-IKK alpha (Thr23) Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Phospho-IKK alpha (Thr23)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:200
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human IKK- alpha around the phosphorylation site of Threonine 23
Specificity	Phospho-IKK- alpha (Thr23) Antibody detects endogenous levels of IKK- alpha only when phosphorylated at Threonine 23
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	CHUK
Accession No.	O15111

Antibody Specification

Alternate Names	chuk; CHUK1; Conserved Helix Loop Helix Ubiquitous Kinase; Conserved helix loop ubiquitous kinase; Conserved helix-loop-helix ubiquitous kinase; I Kappa B Kinase 1; I Kappa B Kinase Alpha; I-kappa-B kinase 1; I-kappa-B kinase alpha; IkappaB kinase; IkB kinase alpha subunit; IkBKA; IKK 1; IKK A; IKK a kinase; IKK-A; IKK-alpha; IKK1; IKKA; IKKA_HUMAN; Inhibitor Of Kappa Light Polypeptide Gene Enhancer In B Cells; Inhibitor Of Nuclear Factor Kappa B Kinase Alpha Subunit; Inhibitor of nuclear factor kappa-B kinase subunit alpha; NFKBIKA; Nuclear Factor Kappa B Inhibitor Kinase Alpha; Nuclear factor NF kappa B inhibitor kinase alpha; Nuclear factor NF-kappa-B inhibitor kinase alpha; Nuclear factor NFkappaB inhibitor kinase alpha; Nuclear Factor Of Kappa Light Chain Gene Enhancer In B Cells Inhibitor; TCF-16; TCF16; Transcription factor 16;
Description	Serine kinase that plays an essential role in the NF-kappa-B signaling pathway which is activated by multiple stimuli such as inflammatory cytokines, bacterial or viral products, DNA damages or other cellular stresses. Acts as part of the canonical IKK complex in the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-B on serine residues. These modifications allow polyubiquitination of the inhibitors and subsequent degradation by the proteasome. In turn, free NF-kappa-B is translocated into the nucleus and activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. Negatively regulates the pathway by phosphorylating the scaffold protein TAXBP1 and thus promoting the assembly of the A20/TNFAIP3 ubiquitin-editing complex (composed of A20/TNFAIP3, TAX1BP1, and the E3 ligases ITCH and RNF11). Therefore, CHUK plays a key role in the negative feedback of NF-kappa-B canonical signaling to limit inflammatory gene activation. 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. In turn, these complexes regulate genes encoding molecules involved in B-cell survival and lymphoid organogenesis. Participates also in the negative feedback of the non-canonical NF-kappa-B signaling pathway by phosphorylating and destabilizing MAP3K14/NIK. Within the nucleus, phosphorylates CREBBP and consequently increases both its transcriptional and histone acetyltransferase activities. Modulates chromatin accessibility at NF-kappa-B-responsive promoters by phosphorylating histones H3 at 'Ser-10' that are subsequently acetylated at 'Lys-14' by CREBBP. Additionally, phosphorylates the CREBBP-interacting protein NCOA3. Also phosphorylates FOXO3 and may regulate this pro-apoptotic transcription factor (PubMed:15084260).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	85kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.