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Product datasheet for AP21041PU-M

IKK alpha (CHUK) (+IKKB) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	Immunohistochemistry: 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	IKK-a/b pAb detects endogenous levels of IKK-a/b protein.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1,0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	conserved helix-loop-helix ubiquitous kinase
Database Link:	Entrez Gene 12675 MouseEntrez Gene 309361 RatEntrez Gene 1147 Human O15111

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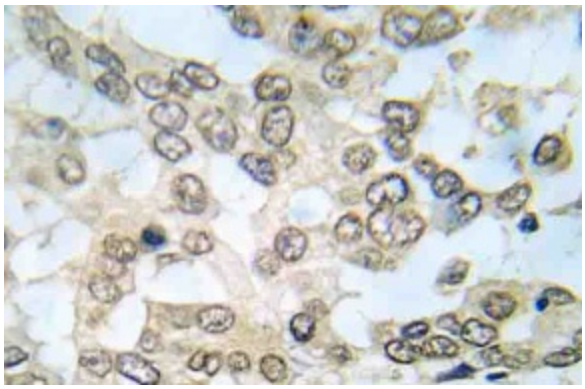
Background: The transcription factor NFkappaB is retained in the cytoplasm in an inactive form by the inhibitory protein IkappaB. Activation of NFkappaB requires that IkappaB be phosphorylated on specific serine residues, which results in targeted degradation of IkappaB. IkappaB kinase alpha (IKKalpha), previously designated CHUK, interacts with IkappaBalpha and specifically phosphorylates IkappaBalpha on Serine 32 and 36, the sites that trigger its degradation. IKKalpha appears to be critical for NFkappaB activation in response to proinflammatory cytokines. Phosphorylation of IkappaB by IKKalpha is stimulated by the NFkappaB inducing kinase (NIK), which itself is a central regulator for NFkappaB activation in response to TNF and IL-1. The functional IKK complex contains three subunits, IKKalpha, IKKbeta and IKKgamma (also designated NEMO), and each appear to make essential contributions to IkappaB phosphorylation.

Synonyms: CHUK, TCF16, I kappa-B kinase alpha, IkBKA, IKK-alpha, IKK-A, IkappaB kinase, I-kappa-B kinase 1, NFKBIKA, IKK1

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

Product images:



Immunohistochemistry (IHC) analyzes of IKK-a/b pAb in paraffin-embedded human breast carcinomatissue.