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Product datasheet for AP20466PU-N

IKK gamma (IKBKG) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	**Western blot**: 1/500 - 1/1000. **Immunohistochemistry on paraffin sections**: 1/50 - 1/200. **Immunofluorescence**: 1/50 - 1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of IKKgamma protein. (region surrounding Ala314)
Formulation:	Phosphate buffered saline (PBS) with 0.05% 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 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.
Predicted Protein Size:	~ 48 kDa
Gene Name:	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma
Database Link:	Entrez Gene 8517 Human Q9Y6K9

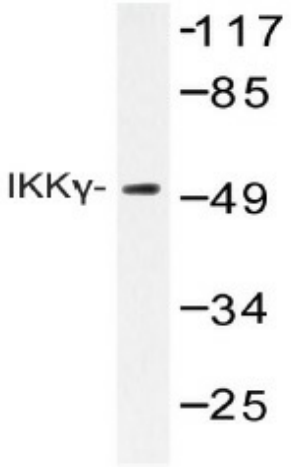
Background: The transcription factor NFkappaB is retained in the cytoplasm in an inactive form by the inhibitory protein IkappaB. Activation of NFkappaB requires that IkappaB be phosphorylated on specific serine residues, which results in targeted degradation of IkappaB. IkappaB kinase alpha (IKKalpha), 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 IκB phosphorylation.

Synonyms: FIP3, FIP-3, IKKAP1, I-kappa-B kinase subunit gamma, IKK-gamma, IKKG, IkB kinase subunit gamma

Protein Families: Druggable Genome, Transcription Factors

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, Primary immunodeficiency, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

Product images:



Western blot (WB) analysis of IKKgamma antibody (Cat.-No.: AP20466PU-N) in extracts from COS-7.