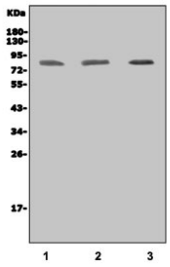
IKKI Antibody / IKKE / IKBKE (RQ6100)

Catalog No.	Formulation	Size
RQ6100	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q14164
Applications	Western Blot : 1-2ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This IKKI antibody is available for research use only.



IKKI Antibody Human Cancer Cell WB. Western blot analysis of human HL-60, U-87 MG, and A549 cell lysates using IKKI Antibody / Innate Immune Kinase Antibody. An HRP-conjugated secondary antibody with ECL substrate was used for detection. IKKI Antibody detects a single prominent band at approximately 71-80 kDa in all three human cell lines, consistent with the predicted molecular weight of IKBKE.

Description

IKKI Antibody recognizes inhibitor of nuclear factor kappa-B kinase subunit epsilon (IKBKE), also known as IKK epsilon, IKKE, or IKK-i, a non-canonical serine/threonine kinase that plays a central role in innate immune signaling and antiviral defense. IKKI is activated downstream of pattern recognition receptors, including Toll-like receptors, RIG-I-like receptors, and the cGAS-STING pathway, where it phosphorylates transcription factors such as IRF3 and IRF7 to promote production of type I interferons and other inflammatory mediators. As a result, IKKI Antibody is widely used to investigate host defense mechanisms, inflammatory signaling, and immune regulation.

Beyond antiviral immunity, IKKI regulates multiple cellular processes including proliferation, survival, autophagy, and metabolic signaling through pathways involving NF-kappaB, AKT, and STAT. Increased IKBKE expression or constitutive kinase activation has been reported in numerous malignancies, including breast, ovarian, lung, and pancreatic cancers, where it contributes to oncogenic signaling and resistance to apoptosis. These findings have established IKKI as an important therapeutic target in both cancer and inflammatory disease research.

IKKI functions closely with the related kinase TBK1 to coordinate innate immune responses while maintaining immune homeostasis. Dysregulation of this signaling network has been implicated in autoimmune disease, chronic inflammation, and impaired antiviral immunity. Consequently, IKKI Antibody is a valuable research tool for studies of interferon signaling, cytokine regulation, kinase biology, inflammation, and tumor progression.

For additional information about IKBKE biology, validated applications, and related products, explore our IKK Epsilon Antibody, an Innate Immune Kinase Antibody for research involving antiviral defense, inflammatory signaling, interferon responses, and immune regulation.

Learn more about our IKK Epsilon Antibody, an Innate Immune Kinase Antibody validated for investigating antiviral defense, interferon signaling, inflammatory pathways, and cancer biology.

Application Notes

Optimal dilution of the IKKI antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids Q318-V716) was used as the immunogen for the IKKI antibody.

Storage

After reconstitution, the IKKI antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

IKBKE Antibody, IKK Epsilon Antibody, Inhibitor of Nuclear Factor Kappa-B Kinase Subunit Epsilon Antibody, I-kappa-B Kinase Epsilon Antibody, IKKE Antibody, Serine/Threonine Protein Kinase IKBKE Antibody

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