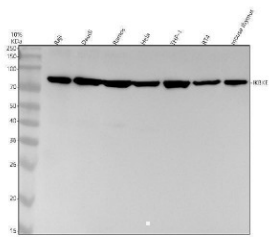
IKK Epsilon Antibody / Innate Immune Kinase Antibody [clone AFAO-9] (FY13469)

Catalog No.	Formulation	Size
FY13469	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human, Mouse
Format	Liquid
Host	Mouse
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AFAO-9
Purity	Affinity purification
UniProt	Q14164
Localization	Nuclear
Applications	Western blot: 1:500-1:2000
Limitations	This IKK Epsilon Antibody / Innate Immune Kinase Antibody is available for research use only.



IKK Epsilon Antibody Human and Mouse WB. Western blot analysis of human Raji, Daudi, Ramos, HeLa, THP-1, and RT4 whole cell lysates, and mouse thymus tissue lysate using IKK Epsilon Antibody / Innate Immune Kinase Antibody at 1:500. An HRP-conjugated goat anti-rabbit IgG secondary antibody with ECL substrate was used for detection. IKK Epsilon Antibody detects a strong band at approximately 80 kDa in all samples tested, consistent with the predicted molecular weight of IKBKE.

Description

IKK Epsilon Antibody recognizes inhibitor of nuclear factor kappa-B kinase subunit epsilon (IKBKE), also known as IKK epsilon or IKK-i, a serine/threonine protein kinase that plays a pivotal role in innate immunity, antiviral defense, and inflammatory signaling. IKK epsilon belongs to the non-canonical IKK family together with TBK1 and is activated downstream of pattern recognition receptors including Toll-like receptors, RIG-I-like receptors, and cGAS-STING signaling pathways. Once activated, IKK epsilon phosphorylates transcription factors such as IRF3, IRF7, and NF-kappaB

regulatory proteins, promoting expression of type I interferons and numerous inflammatory cytokines. As a result, IKK Epsilon Antibody is widely used to investigate host defense mechanisms and innate immune signaling.

Beyond its role in antiviral immunity, IKK epsilon regulates cell survival, proliferation, autophagy, and metabolic signaling. Aberrant IKBKE expression or activation has been reported in several malignancies, including breast, ovarian, lung, and pancreatic cancers, where increased kinase activity can promote oncogenic signaling through pathways such as AKT, NF-kappaB, and STAT signaling. Elevated IKK epsilon activity has also been associated with chronic inflammatory disorders and autoimmune disease, making the kinase an attractive therapeutic target for both cancer and immune-mediated diseases. Consequently, IKK Epsilon Antibody is valuable for studies examining kinase signaling, inflammation, and tumor biology.

IKK epsilon functions within a complex signaling network alongside TBK1 and other innate immune regulators to coordinate cellular responses to viral infection and cytoplasmic nucleic acids. Because of this central regulatory role, inhibition of IKK epsilon has become an active area of therapeutic development for infectious diseases, inflammatory disorders, and oncology. Researchers frequently employ IKK Epsilon Antibody to characterize pathway activation, evaluate kinase expression, and investigate mechanisms controlling interferon production and immune homeostasis.

This recombinant rabbit monoclonal IKK Epsilon Antibody (clone AFAO-9) provides the high specificity, lot-to-lot consistency, and reproducibility expected of recombinant monoclonal antibodies. Once validation data are incorporated, this IKK Epsilon Antibody will be well suited for investigating innate immune signaling, antiviral responses, inflammatory pathways, and cancer biology.

Explore additional Immunology Antibodies for targets involved in innate immune signaling, antiviral defense, interferon regulation, and inflammatory pathway research.

Application Notes

Optimal dilution of the IKK Epsilon Antibody / Innate Immune Kinase Antibody should be determined by the researcher.

Immunogen

A synthetic peptide derived from human IKK Epsilon protein was used as the immunogen for the IKK Epsilon Antibody.

Storage

Store the IKK Epsilon Antibody at -20oC for one year, or at 4oC for one month.

Alternate Names

IKBKE Antibody, IKK-i 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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