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# IKKε Antibody

Store at -20C  
#2690

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q14164	<b>Entrez-Gene Id:</b> 9641
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## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

IKKε Antibody detects endogenous levels of total IKKε protein. This antibody does not cross-react with other IKKs or with TBK1/NAK.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a region near the carboxyl terminus of IKKε protein. Antibodies are purified by peptide affinity chromatography.

## Background

The NF-κB/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory IκB proteins (1-3). Most agents that activate NF-κB do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of IκB (3-7). The key regulatory step in this pathway involves activation of a high molecular weight IκB kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. IKKα and IKKβ serve as the catalytic subunits of the kinase and IKKγ serves as the regulatory subunit (8,9). Activation of IKK depends upon phosphorylation at Ser177 and Ser181 in the activation loop of IKKβ (Ser176 and Ser180 in IKKα), which causes conformational changes, resulting in kinase activation (10-13). Recently, two homologs of IKKα and IKKβ have been described, called IKKε (also known as IKK-i) and TBK1 (also known as T2K or NAK). Activation of either of these kinases results in NF-κB activation. IKKε contains the kinase domain in its amino terminus, which shares 30% identity to that of IKKα or IKKβ. IKKε is expressed mainly in immune cells and may play a special role in the immune response (14-18).

## Background References

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## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting

## Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat

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