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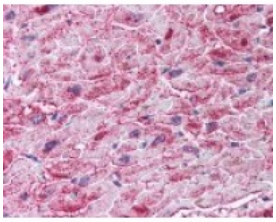
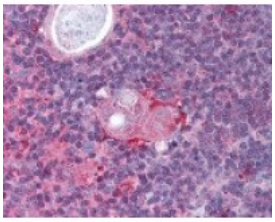
# IKBKB Antibody

CATALOG NUMBER: 49-609



Immunohistochemistry staining of IKBKB in heart tissue using IKBKB Antibody.



Immunohistochemistry staining of IKBKB in thymus using IKBKB Antibody.

## Specifications

| | |
|---|---|
| **SPECIES REACTIVITY:** | Human, Mouse, Rat |
| **TESTED APPLICATIONS:** | IHC, WB |
| **APPLICATIONS:** | IKBKB antibody can be used in ELISA, Western Blot, immunohistochemistry starting at 5 ug/mL, and immunoprecipitation |
| **USER NOTE:** | This product ships on dry ice. |
| **IMMUNOGEN:** | IKBKB antibody was raised against amino acids 310 - 376 of IKBKB (Human). |
| **HOST SPECIES:** | Chicken |

## Properties

| | |
|---|---|
| **PURIFICATION:** | Immunoaffinity Chromatography |
| **PHYSICAL STATE:** | Liquid |
| **BUFFER:** | PBS. No preservative added. |
| **STORAGE CONDITIONS:** | IKBKB antibody should be stored at -20 ˚C. As with all antibodies avoid freeze/thaw cycles. |
| **CLONALITY:** | Polyclonal |
| **ISOTYPE:** | IgY |
| **CONJUGATE:** | Unconjugated |

## Additional Info

| | |
|---|---|
| **ALTERNATE NAMES:** | IKBKB, Ikk 2, IKK-B, IKK2, IKKbeta, NFKBIKB, I-kappa-B kinase 2, IKKB, I-kappa-B-kinase beta, Ikb kinase-beta, IKK Beta, IKK-beta |
| **ACCESSION NO.:** | O14920 |
| **PROTEIN GI NO.:** | 14285497 |
| **OFFICIAL SYMBOL:** | IKBKB |
| **GENE ID:** | 3551 |

## Background

| | |
|---|---|
| **BACKGROUND:** | IKKbeta, an IKAPPAB-type protein kinase, is a member of the multimeric IkappaB kinase complex. This |

complex, often consisting of IKKalpha/IKKbeta heterodimers plus regulatory IKKgamma subunits, phosphorylates IkappaB proteins, marking them for destruction and thereby allowing activation of NFkappaB and downstream nuclear genes. The constitutively expressed IKKbeta protein contains an N-terminal kinase domain, a central leucine zipper motif, and a C-terminal helix-loop-helix motif. In knockout studies, IKKbeta (-/-) mice died between embryonic day 12.5 and 14 due to extensive liver damage from apoptosis; however, they were rescued by inactivation of the tumor necrosis factor receptor 1 gene. IKKbeta has been implicated in the pathogenesis of insulin resistance in obesity and type II diabetes mellitus.



December 13, 2016