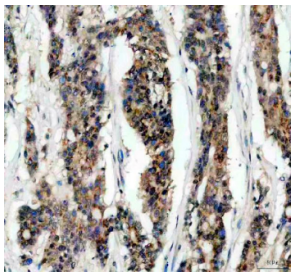
IkB beta Antibody / NFKBIB (R31705)

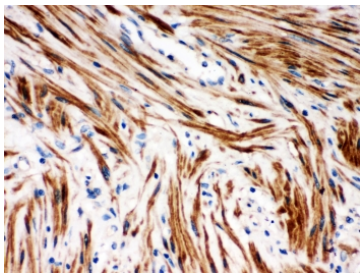
Catalog No.	Formulation	Size
R31705	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

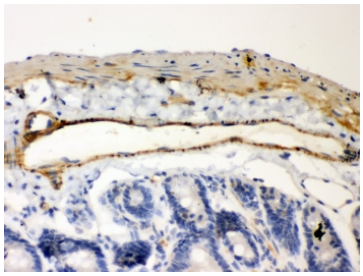
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q15653
Gene ID	4793
Localization	Cytoplasmic & Nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This IkB beta antibody is available for research use only.



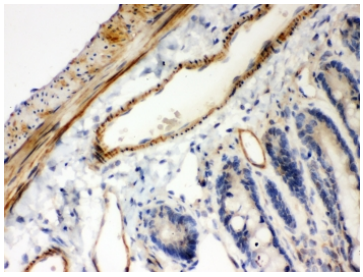
IHC staining of FFPE human breast cancer tissue with IkB beta antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



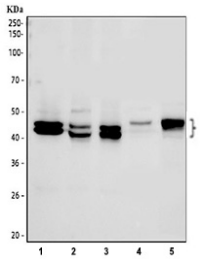
IHC staining of FFPE human intestinal cancer tissue with IkB beta antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse intestinal tissue with IkB beta antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat intestinal tissue with IkB beta antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human MCF7, 3) human Jurkat, 4) rat testis and 5) mouse testis tissue lysate with IkB beta antibody. Western blot detection of IkB beta/NFKBIB shows a 40-45 kDa doublet across multiple lysates. The spacing is consistent with phosphorylated and unmodified forms of IkB beta.

Description

IkB beta (NFKBIB) is a member of the inhibitor of kappa B family, which regulates the NF-kappaB signaling pathway. It functions by binding NF-kappaB transcription factors in the cytoplasm, preventing their nuclear translocation and subsequent activation of genes involved in immune responses, inflammation, and cell survival.

IkB beta is dynamically regulated through phosphorylation and proteasomal degradation in response to stimuli such as cytokines, stress, and pathogens. Its activity ensures proper control of NF-kappaB signaling, balancing immune defense with the prevention of excessive inflammation. Dysregulation of IkB beta has been linked to autoimmune disease, chronic inflammation, and cancer.

Using a high-quality IkB beta antibody enables reliable detection in applications such as western blot, immunohistochemistry, and immunoprecipitation. An IkB beta antibody from NSJ Bioreagents ensures sensitivity and reproducibility for studies on NF-kappaB regulation, immune signaling, and disease mechanisms. Selecting the right IkB beta antibody is essential for producing consistent and meaningful results.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the IkB beta antibody may be required

due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 56-237) was used as the immunogen for this IkB beta antibody.

Storage

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

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