

## [KD Validated] Anti-IKBKB Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

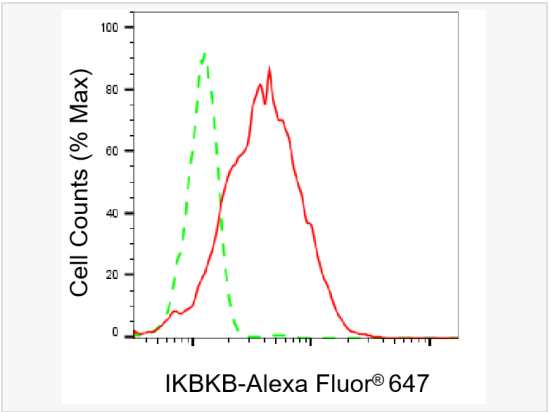
Catalog # R021499

### Product Information

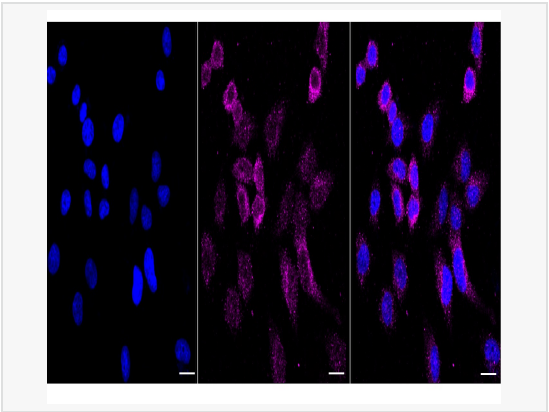
|             |                                                                                                                                   |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Application | WB, FC, IF (Cell)/ICC                                                                                                             |
| Reactivity  | Human, Mouse                                                                                                                      |
| Dilution    | WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000                                                                            |
| Host        | Rabbit                                                                                                                            |
| Clonality   | Monoclonal                                                                                                                        |
| Clone No.   | 12N99Q29                                                                                                                          |
| Isotype     | IgG                                                                                                                               |
| Label       | Unconjugated                                                                                                                      |
| Immunogen   | A synthesized peptide derived from human IKK beta                                                                                 |
| Format      | Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.                           |
| Storage     | Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.       |
| Precautions | [KD Validated] Anti-IKBKB Rabbit mAb [12N99Q29] is for research use only and not for use in diagnostic or therapeutic procedures. |

### Protein Information

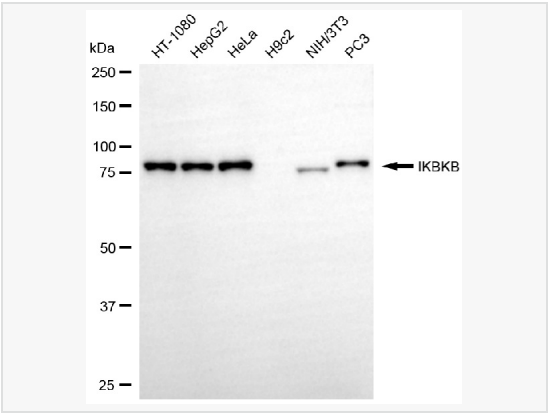
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synonyms      | IKKBK; Inhibitor Of Nuclear Factor Kappa B Kinase Subunit Beta; IKK-Beta; NFKBKB; IKK2; IKKB; Inhibitor Of Kappa Light Polypeptide Gene Enhancer In B-Cells, Kinase Beta; Inhibitor Of Nuclear Factor Kappa-B Kinase Subunit Beta; Nuclear Factor NF-Kappa-B Inhibitor Kinase Beta; Serine/Threonine Protein Kinase IKKBK; I-Kappa-B-Kinase Beta; I-Kappa-B Kinase 2; EC 2.7.11.10; IKK-2; Nuclear Factor Kappa B Kinase Subunit Beta; EC 2.7.11.1; EC 2.7.11; IMD15A; IMD15B; IMD15; IKK-B; IkBKB.                                   |
| Calculated MW | Calculated MW: 87 kDa, Observed MW: 87 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Uniprot ID    | O14920                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene ID       | 3551                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Background    | The NF- $\kappa$ B/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory I $\kappa$ B proteins (1-3). Most agents that activate NF- $\kappa$ B do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of I $\kappa$ B (3-7). The key regulatory step in this pathway involves activation of a high molecular weight I $\kappa$ B kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. |



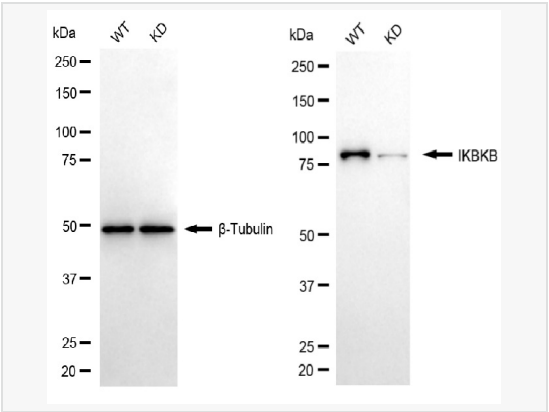
Flow cytometric analysis of IKBKB expression in HepG2 cells using IKBKB antibody (R021499, 1:2,000). Green, isotype control; red, IKBKB.



Immunocytochemical staining of HepG2 cells with IKBK antibody (R021499, 1:1,000). Nuclei were stained blue with DAPI; IKBK was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Western blotting analysis using IKBKB antibody (R021499). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with IKBKB antibody (R021499, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using IKBKB antibody (R021499). IKBKB expression in wild type (WT) and IKBKB knockdown (KD) HSHC cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with IKBKB antibody (R021499, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.