

产品名称: IKK beta (11A19) Rabbit Monoclonal Antibody  
产品货号: AMRe12473



## 产品概述 (Summary)

|                        |                                             |
|------------------------|---------------------------------------------|
| 产品名称 (Production Name) | IKK beta (11A19) Rabbit Monoclonal Antibody |
| 描述 (Description)       | Recombinant rabbit monoclonal antibody      |
| 宿主 (Host)              | Rabbit                                      |
| 应用 (Application)       | WB,IP                                       |
| 种属反应性 (Reactivity)     | Human,Mouse                                 |

## 产品性能 (Performance)

|                     |                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                                                |
| 修饰 (Modification)   | Unmodified                                                                                                                  |
| 同种型 (Isotype)       | IgG                                                                                                                         |
| 克隆 (Clonality)      | Monoclonal                                                                                                                  |
| 形式 (Form)           | Liquid                                                                                                                      |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.                                    |
| 储存溶液 (Buffer)       | Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein. |
| 纯化方式 (Purification) | Affinity purification                                                                                                       |

## 免疫原信息 (Immunogen)

|                        |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | IKBKB<br>EC 2.7.11.10; I-kappa-B kinase 2; I-kappa-B-kinase beta; IKK-B; IKK-beta; IKK2; |
| 别名 (Alternative Names) | IKKB; IkbKB; NFKBKB; Nuclear factor NF-kappa-B inhibitor kinase beta; kinase IKK-beta;   |
| 基因 ID (Gene ID)        | 3551.0                                                                                   |
| 蛋白 ID (SwissProt ID)   | O14920.A synthetic peptide of human IKK beta                                             |

## 产品应用 (Application)

|                          |                               |
|--------------------------|-------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:1000-1:2000,IP 1:20-1:50 |
| 蛋白分子量 (Molecular Weight) | 87kDa                         |

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## 研究背景 (Background)

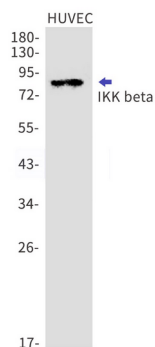
The NF- $\kappa$ B/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory I $\kappa$ B proteins (1-3). Most agents that activate NF- $\kappa$ B do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of I $\kappa$ 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. Serine kinase that plays an essential role in the NF- $\kappa$ B signaling pathway which is activated by multiple stimuli such as inflammatory cytokines, bacterial or viral products, DNA damages or other cellular stresses (PubMed:[30337470](http://www.uniprot.org/citations/30337470)). Acts as part of the canonical IKK complex in the conventional pathway of NF- $\kappa$ B activation. Phosphorylates inhibitors of NF- $\kappa$ B on 2 critical serine residues. These modifications allow polyubiquitination of the inhibitors and subsequent degradation by the proteasome. In turn, free NF- $\kappa$ B is translocated into the nucleus and activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. In addition to the NF- $\kappa$ B inhibitors, phosphorylates several other components of the signaling pathway including NEMO/I $\kappa$ BKG, NF- $\kappa$ B subunits RELA and NF $\kappa$ B1, as well as IKK-related kinases TBK1 and IKK $\epsilon$  (PubMed:[11297557](http://www.uniprot.org/citations/11297557), PubMed:[20410276](http://www.uniprot.org/citations/20410276)). IKK-related kinase phosphorylations may prevent the overproduction of inflammatory mediators since they exert a negative regulation on canonical IKKs. Phosphorylates FOXO3, mediating the TNF- dependent inactivation of this pro-apoptotic transcription factor (PubMed:[15084260](http://www.uniprot.org/citations/15084260)). Also phosphorylates other substrates including NCOA3, BCL10 and IRS1 (PubMed:[17213322](http://www.uniprot.org/citations/17213322)). Within the nucleus, acts as an adapter protein for NF $\kappa$ BIA degradation in UV-induced NF- $\kappa$ B activation (PubMed:[11297557](http://www.uniprot.org/citations/11297557)). Phosphorylates RIPK1 at 'Ser-25' which represses its kinase activity and consequently prevents TNF-mediated RIPK1-dependent cell death (By similarity). Phosphorylates the C- terminus of IRF5, stimulating IRF5 homodimerization and translocation into the nucleus (PubMed:[25326418](http://www.uniprot.org/citations/25326418)).

## 研究领域 (Research Area)

Signal Transduction

## 图片 (Image Data)

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Western blot detection of IKK beta in HUVEC cell lysates using IKK beta antibody(1:1000 diluted).

### 注意事项 (Note)

For research use only .