



IKK β (Phospho-Ser177/181) Antibody

#58036

Number: 58036

Amount: 100 μ g/100 μ l

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20°C/1 year

Immunogen: synthetic phosphopeptide corresponding to residues surrounding Ser177/181 of human IKK β

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

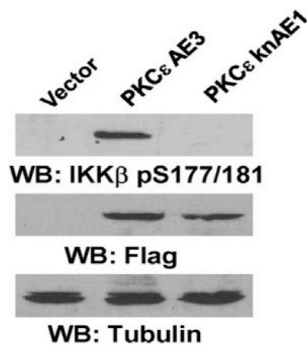
Specificity/Sensitivity: IKK β (Phospho-Ser177/181) antibody detects endogenous levels of IKK β only when phosphorylated at Serine177/181.

Reactivity: Human

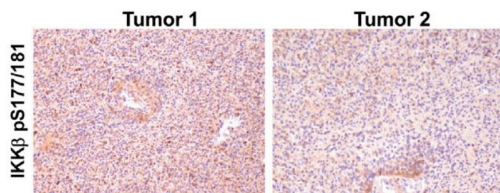
Applications:

Predicted MW: 87KD

WB :1:500~1:1000 IHC:1:50-200



293T cells were transiently transfected with Flag-PKC ϵ AE3 or Flag-PKC ϵ knAE1. Immunoblotting analyses were performed with the indicated antibodies.



IHC staining with anti-phospho-IKK β Ser177/181 antibodies was performed on 55 GBM specimens.

Background : Monoubiquitylated PKC ϵ interacts with a ubiquitin-binding domain in NEMO zinc finger and recruits the cytosolic IKK complex to the plasma membrane, where PKC ϵ phosphorylates IKK β at Ser177 and activates IKK β . PKC ϵ - and NF- κ B-dependent PKM2 upregulation is required for EGFR-promoted glycolysis and tumorigenesis. In addition, PKM2 expression correlates with EGFR and IKK β activity in human glioblastoma specimens and with grade of glioma malignancy [1].

Reference:[1] Yang W, Xia Y, Cao Y, Zheng Y, Bu W, Zhang L, You MJ, Koh MY, Cote G, Aldape K, Li Y, Verma IM, Chiao PJ, Lu Z. EGFR-induced and PKC ϵ monoubiquitylation-dependent NF- κ B activation upregulates PKM2 expression and promotes tumorigenesis. *Mol Cell*. 2012 Dec 14;48(5):771-84. doi: 10.1016/j.molcel.2012.09.028.