

## Anti-IKK beta Antibody (3J610)

### Product Details

Ig Type:	IgG1
Reactivity:	Human
Molecular Weight:	Theoretical: 83 kDa. Actual: 83 kDa.
Clone:	3J610
Purification:	Protein G purified

### Applications

Sample:	Lane 1: SK-BR3 cell lysates
Verified Activity:	Primary: Anti-IKK beta (TMAB-07580) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 83 kD Observed band size: 83 kD
Application:	WB
Recommended	WB: 1:500-1000

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	Recombinant Protein: human IKK beta (His-tagged)
Antigen Species:	Human
Gene ID:	3551
Uniprot ID:	O14920

### Research Background

IKK beta (I-Kappa-B kinase-beta) is a member of the IKK complex which is composed of IKK alpha, IKK beta, IKK gamma and IKAP. Phosphorylation of I-Kappa-B on a serine residue by the IKK complex frees NF-kB from I-Kappa-B and marks it for degradation via ubiquitination. IKK beta has been shown to activate NF-kB and phosphorylate IKB alpha and beta. Phosphorylation of 2 sites at the activation loop of IKK beta is essential for activation of IKK by TNF and IL1. Once activated, IKK beta autophosphorylates which in turn decreases IKK activity and prevents prolonged activation of the inflammatory response. Additionally, IKK beta activity can also be regulated by MEKK1.

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