

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IKKβ in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 725818
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse IKKβ Val530-Asp757 Accession # O88351
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

IκB kinase beta (IKKβ) is also known as IKBKB and IKK2. The classical active IKK complex, composed of IKKα, IKKβ, and two forms of processed IKKγ, phosphorylates and inactivates IκB, resulting in the release and nuclear translocation of active NFκB. Like IKKα, IKKβ contains kinase (aa 15-300), leucine zipper (aa 458-479), and helix-loop-helix (aa 605-644) domains. NFκB-inducing kinase (NIK) phosphorylates and activates IKKα/IKKβ heterodimers. Within amino acids 530-757, mouse IKKb shares 89% and 96% aa sequence identity with human and rat IKKb, respectively.

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