

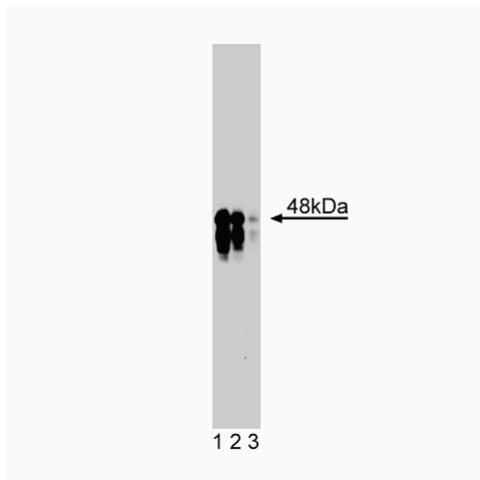
Technical Data Sheet

Purified Mouse Anti-IKK γ **Product Information**

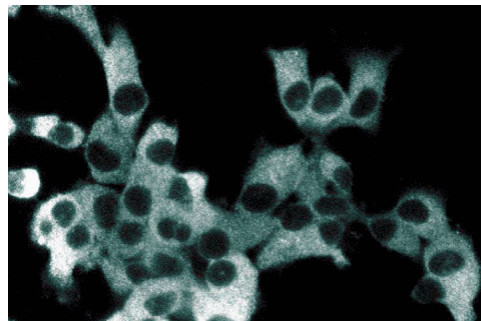
Material Number:	611306
Alternate Name:	NEMO
Size:	50 μ g
Concentration:	250 μ g/ml
Clone:	54/IKK γ /NEMO
Immunogen:	Mouse IKK γ /NEMO aa. 278-396
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat Tested in Development: Human, Dog
Target MW:	48 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09\%$ sodium azide.

Description

In most cells, NF- κ B is sequestered in an inactive cytoplasmic form via interactions with the inhibitory proteins I κ B α , I κ B β , and I κ B ϵ . Cell stimulation induces the release, activation, and nuclear translocation of NF- κ B. Release of NF- κ B results from the phosphorylation and subsequent proteolytic degradation of the I κ B proteins. Two cytokine-inducible I κ B kinases (IKK α and IKK β) phosphorylate and target the I κ B proteins for degradation by the ubiquitin pathway. These kinases are components of a 700-900 kDa multisubunit complex that also contains NF- κ B/RelA, I κ B α , MEKK1, NIK, IKAP, and IKK γ /NEMO (NF- κ B essential modulator). IKK γ contains two coiled-coil domains and a leucine zipper which allow it to form dimers and trimers that interact directly with IKK β . IKK γ , essential for IKK α /IKK β activation of NF- κ B, is located functionally and physically upstream of these subunits. In addition, IKK γ enables the HTLV-1 Tax oncoprotein to interact with IKK β , resulting in constitutive activation of NF- κ B and maintenance of cellular transformation. Thus, IKK γ is an essential element of the I κ B complex and an adaptor that mediates stable formation of Tax-IKK complexes.



Western blot analysis of IKK γ on rat kidney lysate.
Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-IKK γ antibody.



Immunofluorescent staining of ES2 cells with anti-IKK γ antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20°C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharming/en/protocols/Western_Blotting.shtml .

Suggested Companion Products

Catalog Number	Name	Size	Clone
611466	Rat Kidney Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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Rothwarf DM, Zandi E, Natoli G, Karin M. IKK-gamma is an essential regulatory subunit of the IkappaB kinase complex. *Nature.* 1998; 395(6699):297-300.(Biology)

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