Human/Mouse/Rat IKKγ Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2684

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat IKKγ in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human IKKγ Met1-Glu419 Accession # Q9Y6K9
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

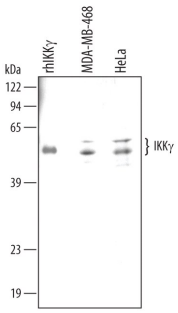
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Simple Western	5 µg/mL	See Below

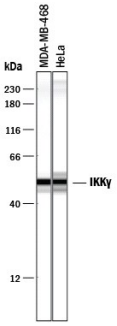
DATA

Western Blot



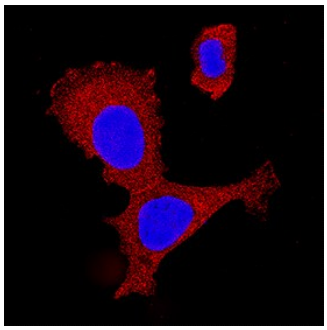
Detection of Human/Mouse/Rat IKKγ by Western Blot. Western blot shows lysates of MDA-MB-468 human breast cancer cell line and HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 0.5 µg/mL Goat Anti-Human/Mouse/Rat IKKγ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2684) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). For additional reference, recombinant human IKK gamma (1 ng) was included. Specific bands for IKK gamma were detected at approximately 50 and 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human IKKγ by Simple Western™. Simple Western lane view shows lysates of MDA-MB-468 human breast cancer cell line and HeLa human cervical epithelial carcinoma cell line, loaded at 0.2 mg/mL. Specific bands were detected for IKKγ at approximately 47-56 kDa (as indicated) using 5 µg/mL of Goat Anti-Human/Mouse/Rat IKKγ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2684) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Immunocytochemistry



IKKγ in MCF-7 Human Cell Line. IKKγ was detected in immersion fixed MCF-7 human breast cancer cell line using Goat Anti-Human/Mouse/Rat IKKγ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2684) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

IκB kinase gamma (IKKγ) is also known as NF-κB essential modulator (NEMO), IKBKG, and FIP3. The active IKK complex, composed of IKKα, IKKβ, and two forms of processed IKKγ (50 and 55 kDa), phosphorylates and inactivates IκB, resulting in the release and nuclear translocation of active NF-κB. The regulatory IKKγ is required for activation of the IKK complex.

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