

DESCRIPTION

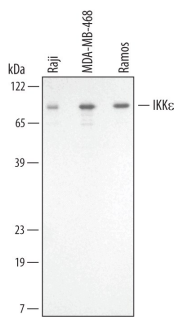
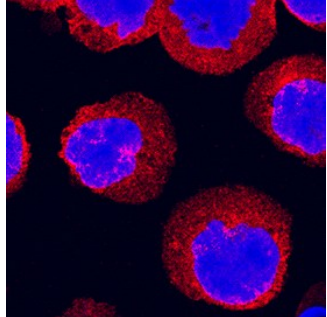
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| Species Reactivity | Human |
| Specificity | Detects human IKKε in Western blots. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human IKKε Met1-Val716 Accession # Q14164 |
| 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 | 1 μg/mL | See Below |
| Immunocytochemistry | 10-25 μg/mL | See Below |

DATA

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| <p>Western Blot</p>  <p>Detection of Human IKKε by Western Blot. Western blot shows lysates of MDA-MB-468 human breast cancer cell line, Raji human Burkitt's lymphoma cell line, and Ramos human Burkitt's lymphoma cell line. PVDF membrane was probed with 1 μg/mL of Goat Anti-Human IKKε Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3199) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for IKKε at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p> | <p>Immunocytochemistry</p>  <p>IKKε in Ramos Human Cell Line. IKKε was detected in immersion fixed Ramos human Burkitt's lymphoma cell line using Goat Anti-Human IKKε Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3199) 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 Non-adherent Cells.</p> |
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PREPARATION AND STORAGE

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| 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. <ul style="list-style-type: none"> • 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. |

BACKGROUND

IκB kinase epsilon (IKKε) is also known as IKBKE and IKKi. 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 NF-κB. IKKε is an IKK-related kinase with 30% structural homology to IKKα and β, and is present in a subset of IKK complexes. IKKε activation has been implicated in the initiation of anti-viral gene expression and in the pathogenesis of breast cancer.