

35-1472: Polyclonal Antibody to IKK Alpha (Ab-23)

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| Clonality : | Polyclonal |
| Application : | WB,IHC |
| Reactivity : | Human,Mouse,Rat |
| Gene : | CHUK |
| Gene ID : | 1147 |
| Uniprot ID : | O15111 |
| Format : | Purified |
| Alternative Name : | I kappa-B kinase alpha, I-kappa-B kinase 1, IKK-A, IKK-alpha, IKK1 |
| Isotype : | Rabbit IgG |
| Immunogen Information : | Peptide sequence around aa.21~25 (L-G-T-G-G) derived from Human IKK a. |

Description

Acts as part of the IKK complex in the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-B thus leading to the dissociation of the inhibitor/NF-kappa-B complex and ultimately the degradation of the inhibitor. As part of the non-canonical pathway of NF-kappa-B activation, the MAP3K14-activated CHUK/IKKA homodimer phosphorylates NFKB2/p100 associated with RelB, inducing its proteolytic processing to NFKB2/p52 and the formation of NF-kappa-B RelB-p52 complexes. Also phosphorylates NCOA3. Phosphorylates 'Ser-10' of histone H3 at NF-kappa-B-regulated promoters during inflammatory responses triggered by cytokines.

Product Info

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| Amount : | 50 μ l / 100 μ l |
| Content : | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage condition : | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles. |

Application Note

Predicted MW: 85kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100

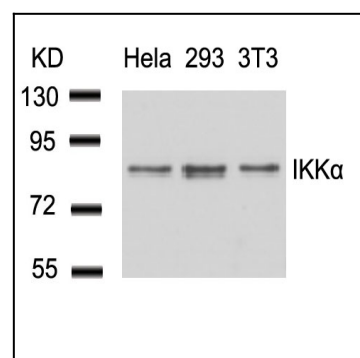


Figure 1: Western blot analysis of extracts from HeLa, 293 and 3T3 cells using IKK a (Ab-23) Antibody 35-1472 .

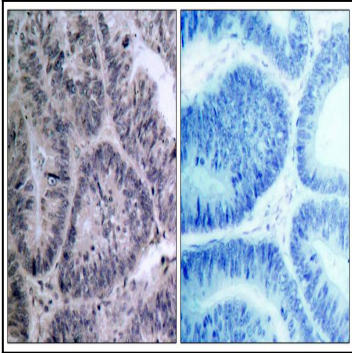


Figure 2: Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using IKK α (Ab-23) Antibody 35-1472 (left) or the same antibody preincubated with blocking peptide(right).