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**[ Marker Primary Antibody ]**

# Rabbit Anti-phospho-IKKi (Ser172)/HRP Conjugated antibody

**Catalog Number: SL8583R-HRP**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Anti-phospho-IKKi(Ser172)/HRP |
| **Immunogen:** | KLH conjugated synthesised phosphopeptide derived from human IKKi/IKKE around the phosphorylation site of Ser172 [FV(p-S)VY] |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **Applications:** | WB=1:500-2000<br>IHC-P=1:100-500<br>IHC-F=1:100-500<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Mouse,Rat(predicted:Human,Dog,Pig,Cow,Rabbit) |
| **Background:** | background: IKBKE is a noncanonical I-kappa-B (see MIM 164008) kinase (IKK) that is essential for regulating antiviral signaling pathways. IKBKE has also been identified as a breast cancer (MIM 114480) oncogene and is amplified and overexpressed in over 30% of breast carcinomas and breast cancer cell lines (Hutti et al., 2009 [PubMed 19481526]).[supplied by OMIM, Oct 2009].<br>**Function:** 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. May play a special role in the immune response. Protects cells against DNA damage-induced cell death.<br>**Subunit:** May interact with MAVS/IPS1. Interacts with AZI2. Interacts with SIKE1. Interacts with TICAM1/TRIF, IRF3 and DDX58/RIG-I, interactions |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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| | are disrupted by the interaction between IKBKE and SIKE1. Interacts with TOPORS; induced by DNA damage. Interacts with CYLD.<br>**Subcellular Location:** Cytoplasm. Nucleus. Nucleus > PML body. Targeting to PML nuclear bodies upon DNA damage is TOPORS-dependent.<br>**Tissue Specificity:** Highly expressed in spleen followed by thymus, peripheral blood leukocytes, pancreas, placenta. Weakly expressed in lung, kidney, prostate, ovary and colon.<br>**Post-translational modifications:** Autophosphorylated and phosphorylated by IKBKB/IKKB.<br>Sumoylation by TOPORS upon DNA damage is required for protection of cells against DNA damage-induced cell death. Desumoylated by SENP1.<br>**Similarity:** Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily.<br>Contains 1 protein kinase domain.<br>**Database links:**<br>**Entrez Gene:** 9641 Human<br>Omim: 605048 Human<br>**SwissProt:** Q14164 Human<br>**Unigene:** 321045 Human<br>Important<br>**Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |