SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Marker Primary Antibody]

Rabbit Anti-IKBKE/IKKi/IKKe /AF647 Conjugated antibody

Catalog Number: SL4114R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-IKBKE/IKKi/IKKe /AF647
Immunogen:	KLH conjugated synthetic peptide derived from human IKBKE (534-583)
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:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Cow)
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]. **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. **Subunit:** May interact with MAVS/IPS1. Interacts with AZI2. Interacts with SIKE1. Interacts with TICAM1/TRIF, IRF3 and DDX58/RIG-I, interactions are disrupted by the interaction between IKBKE and SIKE1. Interacts with TOPORS; induced by DNA damage. Interacts with CYLD. **Subcellular Location:** Cytoplasm. Nucleus. Nucleus, PML body.

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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	Tissue Specificity: Highly expressed in spleen followed by thymus, peripheral blood leukocytes, pancreas, placenta. Weakly expressed in lung, kidney, prostate, ovary and colon. **Post-translational modifications:** Autophosphorylated and phosphorylated by IKBKB/IKKB. Sumoylation by TOPORS upon DNA damage is required for protection of cells against DNA damage-induced cell death. Desumoylated by SENP1. **Similarity:** Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily. Contains 1 protein kinase domain. **Database links:** **Entrez Gene:** 9641 Human Omim: 605048 Human **SwissProt:** Q14164 Human **Unigene:** 321045 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. I kappa B kinase epsilon (IKKe) also belongs to the serine/threonine protein kinase family. It can phosphorylate IkB, thereby activating the NF-kB pathway, promoting NF-kB nuclear translocation, and ultimately degrading the inhibitor of NF-kB. IKKe can be expressed in many tissue cells: thymus, pancreas, spleen, placenta, peripheral blood leukocytes, and can also be expressed at low levels in lung, kidney, prostate cancer, ovary, and colon. However, it is most highly expressed in breast Tumour. IKBKE is significantly overexpressed in human breast cancer, and this novel breast cancer susceptibility gene plays an extremely critical role in Tumour formation and development. Unlike the breast cancer susceptibility genes BRCA1 and BRCA2, the IKBKE protein is innate. Women carrying these genetic variants in these genes have an increased risk of early-onset breast cancer.