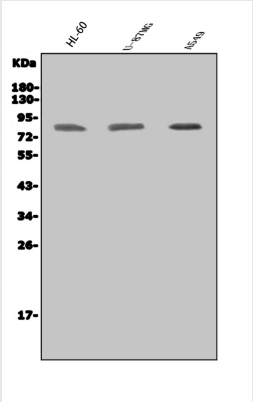
Ikki/Ikke/IKBKE (IKBKE) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IKKi/IKKe/IKBKE, Polyclonal Antibody
Full Product Name	Anti-IKKi/IKKe/IKBKE Antibody
Product Gene Name	anti-IKBKE antibody
Product Synonym Names	IKBKE; IKKE; IKKI; KIAA0151; Inhibitor of nuclear factor kappa-B kinase subunit epsilon; I-kappa-B kinase epsilon; IKK-E; IKK-epsilon; IkBKE; EC 2. 7. 11. 10; Inducible I kappa-B kinase; IKK-i; inhibitor of nuclear factor kappa B kinase subunit epsilon
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Rabbit IgG polyclonal antibody for IKKi/IKKe/IKBKE detection.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	716
OMIM	605048
3D Structure	ModBase 3D Structure for Q14164
Immunogen	E Coli-derived human IKKi/IKKe/IKBKE recombinant protein (Position: Q318-V716).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems||Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (MBS176460) for Western blot.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-IKBKE antibody	Western Blot (WB), Direct ELISA (EIA)
Application Notes for anti-IKBKE antibody	WB: 0.25-0.5ug/ml|Human| Direct ELISA: 0.1-0.5ug/ml|Human|
Related Product Information for anti-IKBKE antibody	Inhibitor of nuclear factor kappa-B kinase subunit epsilon also known as I-kappa-B kinase epsilon or IKK-epsilon is an enzyme that in humans is encoded by the IKBKE gene. IKBKE is a noncanonical I-kappa-B kinase (IKK) that is essential for regulating antiviral signaling pathways. IKBKE has also been identified as a breast cancer oncogene and is amplified and overexpressed in over 30% of breast carcinomas and breast cancer cell line.

Product References and Citations for anti-IKBKE antibody	1. Chiang, S. -H., Bazuine, M., Lumeng, C. N., Geletka, L. M., Mowers, J., White, N. M., Ma, J. -T., Zhou, J., Qi, N., Westcott, D., Delproposto, J. B., Blackwell, T. S., Yull, F. E., Saltiel, A. R. The protein kinase IKK-epsilon regulates energy balance in obese mice. Cell 138: 961-975, 2009. 2. Hutti, J. E., Shen, R. R., Abbott, D. W., Zhou, A. Y., Sprott, K. M., Asara, J. M., Hahn, W. C., Cantley, L. C. Phosphorylation of the tumor suppressor CYLD by the breast cancer oncogene IKK-epsilon promotes cell transformation. Molec. Cell 34: 461-472, 2009. 3. Nagase, T., Seki, N., Tanaka, A., Ishikawa, K., Nomura, N. Prediction of the coding sequences of unidentified human genes. IV. The coding sequences of 40 new genes (KIAA0121-KIAA0160) deduced by analysis of cDNA clones from human cell line KG-1. DNA Res. 2: 167-174, 1995.
Other Notes	Small volumes of anti-IKBKE antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IKBKE purchase	MBS1753467 is an antibody targeting IKBKE. Also known as Anti-IKKi/IKKe/IKBKE Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-IKBKE antibody
Figure 1. Western blot analysis of IKKi/IKKe/IKBKE using anti-IKKi/IKKe/IKBKE antibody (MBS1753467).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HL-60 whole cell lysatesLane 2: human U-87MG whole cell lysatesLane 3: human A549 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-IKKi/IKKe/IKBKE antigen affinity purified polyclonal antibody (Catalog # MBS1753467) at 0. 5 ?g/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # MBS176460) with Tanon 5200 system. A specific band was detected for IKKi/IKKe/IKBKE at approximately 80KD. The expected band size for IKKi/IKKe/IKBKE is at 80KD.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IKBKE. It may not necessarily be applicable to this product.

NCBI GI #	14548079
NCBI GeneID	9641
NCBI Accession #	Q14164.1
UniProt Primary Accession #	Q14164
UniProt Secondary Accession #	Q3B754; Q3KR43; Q5JTS6; D3DT78
UniProt Related Accession #	Q14164
NCBI Official Full Name	Inhibitor of nuclear factor kappa-B kinase subunit epsilon
NCBI Official Synonym Full Names	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon

NCBI Official Symbol	IKBKE
NCBI Official Synonym Symbols	IKKE; IKKI; IKK-E; IKK-i
UniProt Protein Name	Inhibitor of nuclear factor kappa-B kinase subunit epsilon
UniProt Synonym Protein Names	Inducible I kappa-B kinase; IKK-i
Protein Family	Inhibitor of nuclear factor kappa-B kinase
UniProt Gene Name	IKBKE
UniProt Synonym Gene Names	IKKE; IKKI; KIAA0151; I-kappa-B kinase epsilon; IKK-E; IKK-epsilon; IkBKE; IKK-i
UniProt Entry Name	IKKE_HUMAN
NCBI Protein Information	inhibitor of nuclear factor kappa-B kinase subunit epsilon; IKK-epsilon; I-kappa-B kinase epsilon; inducible IkappaB kinase; IKK-related kinase epsilon; inducible I kappa-B kinase
NCBI Summary for IKBKE	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]
UniProt Comments for IKBKE	IKKE: a oncogenic kinase of the IKK family. 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. Plays a pivotal role in coordinating the activation of IRF3 and NF-kappaB in the innate immune response. Its redistribution to PML nuclear bodies upon DNA damage is TOPORS-dependent. Is a breast cancer oncogene that exerts its oncogenic properties through cRel. Protein type: Inhibitor; Kinase, protein; EC 2.7.11.10; Protein kinase, Other; Protein kinase, Ser/Thr (non-receptor); Other group; IKK family Chromosomal Location of Human Ortholog: 1q32.1 Cellular Component: nucleoplasm; PML body; cytoplasm; mitochondrial membrane; endosome membrane; nucleus; cytosol Molecular Function: NF-kappaB-inducing kinase activity; protein binding; IkappaB kinase activity; ATP binding Biological Process: positive regulation of I-kappaB kinase/NF-kappaB cascade; DNA damage response, signal transduction resulting in induction of apoptosis; MyD88-independent toll-like receptor signaling pathway; toll-like receptor signaling pathway; innate immune response; immune response; toll-like receptor 3 signaling pathway; I-kappaB phosphorylation; negative regulation of interferon type I production; toll-like receptor 4 signaling pathway; protein amino acid phosphorylation
Research Articles on IKBKE	**1.** in this work, we identified TPCA-1 as a direct dual inhibitor for both IKKs and STAT3, whereas treatment targeting EGFR only could not sufficiently repress NF-kappaB and STAT3 pathways for lung cancers harboring mutant EGFR.
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