Recombinant Human IKBKE Protein (Q2-V716), Tag Free

Cat. No. IKBKE-1074H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GG-IKKε(Q2-V716 end) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	Q2-V716
Description	Serine/threonine kinase that plays an essential role in regulating inflammatory responses to viral infection, through the activation of the type I IFN, NF-kappa-B and STAT signaling. Also involved in TNFA and inflammatory cytokines, like Interleukin-1, signaling. Following activation of viral RNA sensors, such as RIG-I-like receptors, associates with DDX3X and phosphorylates interferon regulatory factors (IRFs), IRF3 and IRF7, as well as DDX3X. This activity allows subsequent homodimerization and nuclear translocation of the IRF3 leading to transcriptional activation of pro-inflammatory and antiviral genes including IFNB. In order to establish such an antiviral state, IKBKE forms several different complexes whose composition depends on the type of cell and cellular stimuli. Thus, several scaffolding molecules including IPS1/MAVS, TANK, AZI2/NAP1 or TBKBP1/SINTBAD can be recruited to the IKBKE-containing-complexes. Activated by polyubiquitination in response to TNFA and interleukin-1, regulates the NF-kappa-B signaling pathway through, at least, the phosphorylation of CYLD. 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. In addition, is also required for the induction of a subset of ISGs which

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	displays antiviral activity, may be through the phosphorylation of STAT1 at 'Ser-708'. Phosphorylation of STAT1 at 'Ser-708' seems also to promote the assembly and DNA binding of ISGF3 (STAT1:STAT2:IRF9) complexes compared to GAF (STAT1:STAT1) complexes, in this way regulating the balance between type I and type II IFN responses. Protects cells against DNA damage-induced cell death. Also plays an important role in energy balance regulation by sustaining a state of chronic, low-grade inflammation in obesity, wich leads to a negative impact on insulin sensitivity. Phosphorylates AKT1.
Form	Liquid
Endotoxin	< 0.01 EU per μg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	IKBKE inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon [Homo sapiens (human)]
Official Symbol	IKBKE

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Synonyms	IKBKE; inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon; inhibitor of nuclear factor kappa-B kinase subunit epsilon; IKK i; IKKE; KIAA0151; IKK-epsilon; I-kappa-B kinase epsilon; inducible IkappaB kinase; IKK-related kinase epsilon; inducible I kappa-B kinase; IKKI; IKK-E; IKK-i; MGC125294; MGC125295; MGC125297;
Gene ID	9641
mRNA Refseq	NM_001193321
Protein Refseq	NP_001180250
MIM	605048
UniProt ID	Q14164

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