Recombinant Human PIK3C2A 293 Cell Lysate

Cat. No. PIK3C2A-3191HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for phosphoinositide-3-kinase, class 2, alpha polypeptide (PIK3C2A) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	PIK3C2A phosphoinositide-3-kinase, class 2, alpha polypeptide [Homo sapiens]
Official Symbol	PIK3C2A
Synonyms	PIK3C2A; phosphoinositide-3-kinase, class 2, alpha polypeptide; phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit alpha; PI3K C2alpha; PI3K-C2alpha; PI3K-C2-alpha; ptdIns-3-kinase C2 subunit alpha; phosphoinositide 3-kinase-C2-alpha; C2-containing phosphatidylinositol kinase; CPK; PI3-K-C2A; MGC142218; PI3-K-C2(ALPHA); DKFZp686L193;
Gene ID	5286
mRNA Refseq	NM_002645
Protein Refseq	NP_002636
MIM	603601
UniProt ID	O00443
Chromosome Location	11p15.5-p14
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; Clathrin derived vesicle budding, organism-

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	specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Insulin Signaling, organism-specific biosystem;
Function	1-phosphatidylinositol-3-kinase activity; 1-phosphatidylinositol-4-phosphate 3-kinase activity; ATP binding; binding; nucleotide binding; phosphatidylinositol 3-kinase activity; phosphatidylinositol binding; phosphotransferase activity, alcohol group as acceptor;

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