

Product Name: KD-Validated Phospho-DNA PKcs (S2056) Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01777

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 469.1kDa

Antigen Information

Gene Name	PRKDC PRKDC; Protein Kinase, DNA-Activated, Catalytic Subunit; DNPK1; P460; DNA-Dependent Protein Kinase Catalytic Subunit; DNA-PKcs; DNA-PKC; DNAPK; XRCC7; HYRC1; P350; HYRC;
Alternative Names	Protein Kinase, DNA-Activated, Catalytic Polypeptide; DNA-PK Catalytic Subunit; EC 2.7.11.1; DNAPKc; Hyper-Radiosensitivity Of Murine Scid Mutation, Complementing 1; DNA-PKCS; DNAPKC; IMD26
Gene ID	5591.0
SwissProt ID	P78527
Immunogen	A synthesized peptide derived from human Phospho-DNA PKcs (S2056)

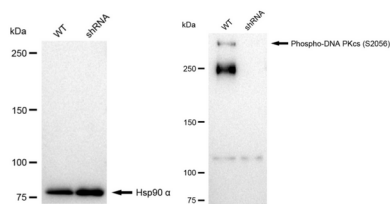
Background

This gene encodes the catalytic subunit of the DNA-dependent protein kinase (DNA-PK). It functions with the Ku70/Ku80 heterodimer protein in DNA double strand break repair and recombination. The protein encoded is a member of the PI3/PI4-kinase family.[provided by RefSeq, Jul 2010]

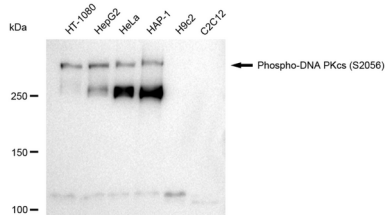
Research Area

Epigenetics and Nuclear Signaling, Neuroscience

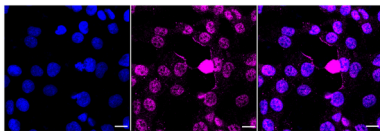
Image Data



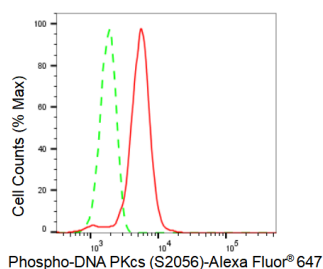
Western blotting analysis using Phospho-DNA PKcs (S2056) antibody (KVAb01777). Phospho-DNA PKcs (S2056) expression in wild type (WT) and phospho-DNA PKcs (S2056) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Phospho-DNA PKcs (S2056) antibody (KVAb01777, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Phospho-DNA PKcs (S2056) antibody (KVAb01777). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Phospho-DNA PKcs (S2056) antibody (KVAb01777, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with Phospho-DNA PKcs (S2056) antibody (KVAb01777, 1:1,000). Nuclei were stained blue with DAPI; Phospho-DNA PKcs (S2056) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Phospho-DNA PKcs (S2056) expression in HT-1080 cells using Phospho-DNA PKcs (S2056) antibody (KVAb01777, 1:2,000). Green, isotype control; red, Phospho-DNA PKcs (S2056).