

Product Name: KD-Validated PRKRA Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00245**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
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; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 34.4kDa

Antigen Information

Gene Name	PRKRA
Alternative Names	PRKRA; Protein Activator Of Interferon Induced Protein Kinase EIF2AK2; PACT; RAX; Protein Activator Of The Interferon-Induced Protein Kinase; PKR-Associated Protein X ; HSD14 ; DYT16; Interferon-Inducible Double-Stranded RNA-Dependent Protein Kinase Activator A; Protein Kinase, Interferon-Inducible Double-Stranded RNA-Dependent Activator; PKR-Associating Protein X; Protein Kinase, Interferon-Inducible Double Stranded RNA Dependent Activator
Gene ID	8575.0
SwissProt ID	O75569
Immunogen	A synthesized peptide derived from human PRKRA

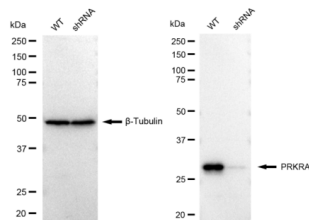
Background

This gene encodes a protein kinase activated by double-stranded RNA which mediates the effects of interferon in response to viral infection. Mutations in this gene have been associated with dystonia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2008]

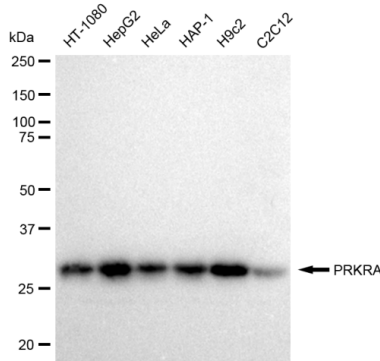
Research Area

Epigenetics and Nuclear Signaling

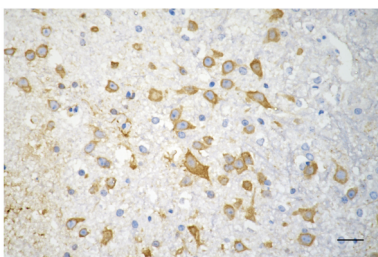
Image Data



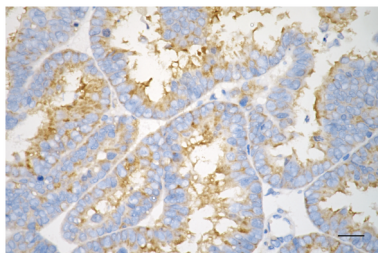
Western blotting analysis using PRKRA antibody (KVA00245). PRKRA expression in wild type (WT) and PRKRA shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with PRKRA antibody (KVA00245, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



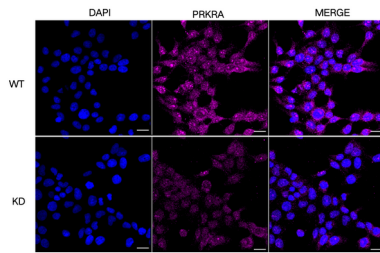
Western blotting analysis using PRKRA antibody (KVA00245). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PRKRA antibody (KVA00245, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



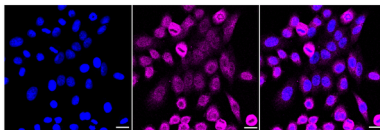
Immunohistochemistry was performed on paraffin-embedded mouse brain using PRKRA antibody (KVA00245, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



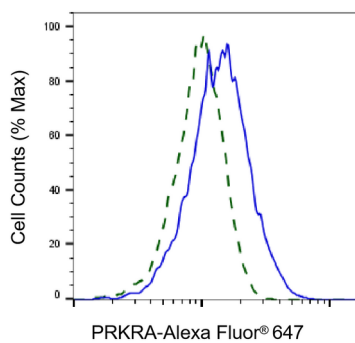
Immunohistochemistry was performed on paraffin-embedded human ovarian carcinoma using PRKRA antibody (KVA00245, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using PRKRA antibody (KVA00245, 1:1,000), Top panel: wild-type (WT); Bottom panel: PRKRA shRNA knockdown (KD). Nuclei were stained blue with DAPI; PRKRA was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm.



Immunocytochemical staining of HepG2 cells with PRKRA antibody (KVA00245, 1:1,000). Nuclei were stained blue with DAPI; PRKRA 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.



Validation of PRKRA knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with PRKRA antibody (KVA00245, 1:2,000) and analyzed using BD flow cytometer.