

Rabbit PRKRA Polyclonal Antibody | anti-PRKRA antibody

PRKRA Antibody

CATALOG # AAA327035	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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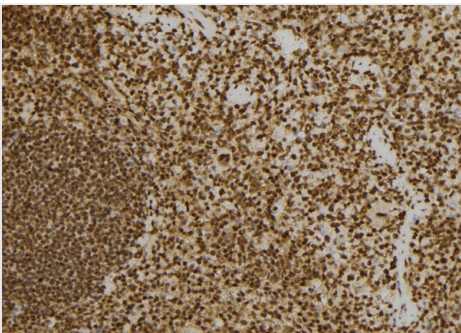
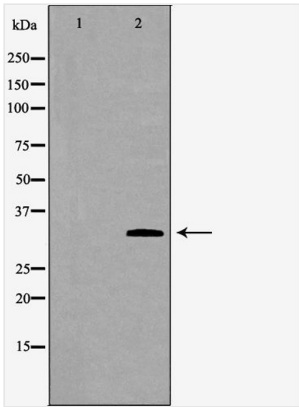
PRODUCT SYNONYMS

PRKRA; Polyclonal Antibody; PRKRA Antibody; DYT16; HSD14; Interferon inducible double stranded RNA dependent protein kinase activator A; interferon-inducible double stranded RNA-dependent activator; Interferon-inducible double stranded RNA-dependent protein kinase activator A; PACT; PKR associated protein X; PKR associating protein X; PKR-associated protein X; PKR-associating protein X; PRKRA_HUMAN; Protein activator of the interferon induced protein kinase; Protein activator of the interferon-induced protein kinase; Protein kinase; Protein kinase interferon inducible double stranded RNA dependent activator; RAX; anti-PRKRA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PRKRA antibody detects endogenous levels of total PRKRA
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	302
Applicable Applications for anti-PRKRA antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PRKRA
Subcellular Location	Cytoplasm > Perinuclear Region.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA327035 at 1/100 staining Mouse spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of mouse liver, using PRKRA antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKRA antibody

Description: 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.

Function: Activates EIF2AK2/PKR in the absence of double-stranded RNA (dsRNA), leading to phosphorylation of EIF2S1/EIF2-alpha and inhibition of translation and induction of apoptosis. Required for siRNA production by DICER1 and for subsequent siRNA-mediated post-transcriptional gene silencing. Does not seem to be required for processing of pre-miRNA to miRNA by DICER1. Promotes UBC9-p53/TP53 association and sumoylation and phosphorylation of p53/TP53 at 'Lys-386' at 'Ser-392' respectively and enhances its activity in a EIF2AK2/PKR-dependent manner (By similarity).

Subunit Structure: Homodimer. Interacts with EIF2AK2/PKR through its DRBM domains. Interacts with DICER1, AGO2 and TARBP2. Also able to interact with dsRNA. Interacts with UBC9 (By similarity). Forms a complex with UBC9 and p53/TP53 (By similarity). Interacts with DUS2L (via DRBM domain).

Post-translational Modifications: Phosphorylated at Ser-246 in unstressed cells and at Ser-287 in stressed cells. Phosphorylation at Ser-246 appears to be a prerequisite for subsequent phosphorylation at Ser-287. Phosphorylation at Ser-246 and Ser-287 are necessary for activation of EIF2AK2/PKR under conditions of stress.

Similarity: Self-association may occur via interactions between DRBM domains as follows: DRBM 1/DRBM 1, DRBM 1/DRBM 2, DRBM 2/DRBM 2 or DRBM 3/DRBM3. Belongs to the PRKRA family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	213417911
NCBI GeneID	8575
NCBI Accession #	NP_001132989.1
NCBI GenBank Nucleotide #	NM_001139517.1
UniProt Accession #	O75569; Q53G24; Q6X7T5; Q8NDK4; A8K3I6
Molecular Weight	Observed: 34 kDa Predicted: 35 kDa
NCBI Official Full Name	interferon-inducible double-stranded RNA-dependent protein kinase activator A isoform 2
NCBI Official Synonym Full Names	protein activator of interferon induced protein kinase EIF2AK2
NCBI Official Symbol	PRKRA
NCBI Official Synonym Symbols	RAX; PACT; DYT16; HSD14
NCBI Protein Information	interferon-inducible double-stranded RNA-dependent protein kinase activator A

UniProt Protein Name	Interferon-inducible double-stranded RNA-dependent protein kinase activator A
UniProt Gene Name	PRKRA
UniProt Synonym Gene Names	PACT; RAX

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/prkra-antibody-immunohistochemistry-western-blot-elisa/327035>