



## Rabbit Anti-PACT(PKR activating protein)/PRKRA antibody

SL19999R

<b>Product Name:</b>	PACT(PKR activating protein)/PRKRA
<b>Chinese Name:</b>	Interferon诱导蛋白激酶PACT抗体
<b>Alias:</b>	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; 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.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	34kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PACT(PKR activating protein)/PRKRA:51-150/313
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year

	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>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]</p> <p><b>Function:</b>  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.</p> <p><b>Subunit:</b>  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).</p> <p><b>Subcellular Location:</b>  Cytoplasm &gt; perinuclear region.</p> <p><b>Post-translational modifications:</b>  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.</p> <p><b>DISEASE:</b>  Defects in PRKRA are the cause of dystonia type 16 (DYT16) [MIM:612067]. DYT16 is an early-onset dystonia-parkinsonism disorder. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. DYT16 patients have progressive, generalized dystonia with axial muscle involvement, oro-mandibular (sardonic smile) and laryngeal dystonia and, in some cases, parkinsonian features.</p> <p><b>Similarity:</b>  Belongs to the PRKRA family.  Contains 3 DRBM (double-stranded RNA-binding) domains.</p> <p><b>SWISS:</b>  O75569</p> <p><b>Gene ID:</b></p>

8575

**Database links:**

[Entrez Gene: 8575](#) Human

[Entrez Gene: 23992](#) Mouse

[Entrez Gene: 311130](#) Rat

[Omim: 603424](#) Human

[SwissProt: O75569](#) Human

[SwissProt: Q9WTX2](#) Mouse

[SwissProt: Q4V8C7](#) Rat

[Unigene: 570274](#) Human

[Unigene: 277250](#) Mouse

[Unigene: 3217](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

www.sunlongbiotech.com