

PRKRA / PACT Antibody (clone 1B9-1A7)
Mouse Monoclonal Antibody
Catalog # ALS14074**Specification**

PRKRA / PACT Antibody (clone 1B9-1A7) - Product Information

Application	WB, IP, IHC
Primary Accession	O75569
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	34kDa KDa

PRKRA / PACT Antibody (clone 1B9-1A7) - Additional Information**Gene ID** 8575**Other Names**

Interferon-inducible double-stranded RNA-dependent protein kinase activator A, PKR-associated protein X, PKR-associating protein X, Protein activator of the interferon-induced protein kinase, Protein kinase, interferon-inducible double-stranded RNA-dependent activator, PRKRA, PACT, RAX

Target/Specificity

Human PACT

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

PRKRA / PACT Antibody (clone 1B9-1A7) is for research use only and not for use in diagnostic or therapeutic procedures.

PRKRA / PACT Antibody (clone 1B9-1A7) - Protein Information**Name** PRKRA**Synonyms** PACT, RAX**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).

Cellular Location

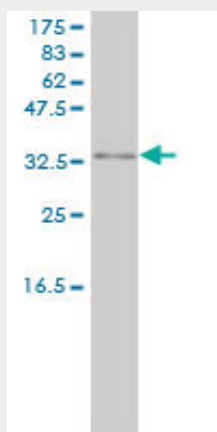
Cytoplasm, perinuclear region. Cytoplasm.

PRKRA / PACT Antibody (clone 1B9-1A7) - Protocols

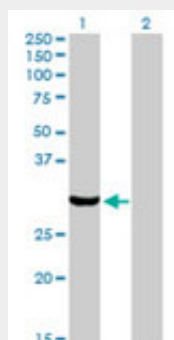
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

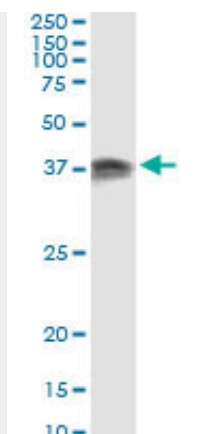
PRKRA / PACT Antibody (clone 1B9-1A7) - Images



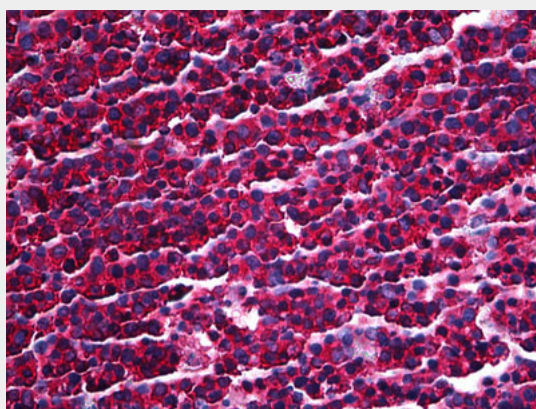
PRKRA monoclonal antibody, clone 1B9-1A7. Western blot of PRKRA expression in human liver.



Western blot of PRKRA expression in transfected 293T cell line by PRKRA monoclonal antibody,...



Immunoprecipitation of PRKRA transfected lysate using anti-PRKRA monoclonal antibody and Protein...



Anti-PRKRA / PACT antibody IHC of human tonsil.

PRKRA / PACT Antibody (clone 1B9-1A7) - Background

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).

PRKRA / PACT Antibody (clone 1B9-1A7) - References

- Patel R.C., et al. EMBO J. 17:4379-4390(1998).
- Ito T., et al. J. Biol. Chem. 274:15427-15432(1999).
- Hu T.H., et al. Submitted (MAR-2003) to the EMBL/GenBank/DDBJ databases.
- Wiemann S., et al. Genome Res. 11:422-435(2001).
- Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.