

## ARG42082 anti-PRKRA antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |                                                                                                                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description | Rabbit Polyclonal antibody recognizes PRKRA                                                                                                                                                                                                                                                           |
| Tested Reactivity   | Hu, Ms, Rat                                                                                                                                                                                                                                                                                           |
| Tested Application  | IHC-P, WB                                                                                                                                                                                                                                                                                             |
| Host                | Rabbit                                                                                                                                                                                                                                                                                                |
| Clonality           | Polyclonal                                                                                                                                                                                                                                                                                            |
| Isotype             | IgG                                                                                                                                                                                                                                                                                                   |
| Target Name         | PRKRA                                                                                                                                                                                                                                                                                                 |
| Species             | Human                                                                                                                                                                                                                                                                                                 |
| Immunogen           | Synthetic peptide of Human PRKRA.                                                                                                                                                                                                                                                                     |
| Conjugation         | Un-conjugated                                                                                                                                                                                                                                                                                         |
| Alternate Names     | PACT; DYT16; Protein kinase, interferon-inducible double-stranded RNA-dependent activator; HSD14; Interferon-inducible double-stranded RNA-dependent protein kinase activator A; PKR-associating protein X; Protein activator of the interferon-induced protein kinase; PKR-associated protein X; RAX |

### Application Instructions

|                   |                                                                                                                                            |             |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Application table | Application                                                                                                                                | Dilution    |
|                   | IHC-P                                                                                                                                      | 1:20 - 1:50 |
|                   | WB                                                                                                                                         | 1:1000      |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |             |
| Assay Time        | O75569                                                                                                                                     |             |

### Properties

|                     |                                                                                                                                                                                                                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form                | Liquid                                                                                                                                                                                                                                                                                                            |
| Purification        | Affinity purified.                                                                                                                                                                                                                                                                                                |
| Buffer              | 50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.                                                                                                                                                                                                                         |
| Preservative        | 0.01% Sodium azide                                                                                                                                                                                                                                                                                                |
| Stabilizer          | 40% Glycerol and 0.05% BSA                                                                                                                                                                                                                                                                                        |
| Concentration       | Batch dependent                                                                                                                                                                                                                                                                                                   |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

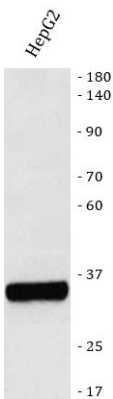
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Symbol           | PRKRA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Full Name        | protein kinase, interferon-inducible double stranded RNA dependent activator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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]                                                                                                                                                                                                                                                                                        |
| Function              | Activates EIF2AK2/PKR in the absence of double-stranded RNA (dsRNA), leading to phosphorylation of EIF2S1/EF12-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). [UniProt] |
| Calculated Mw         | 34 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PTM                   | 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. [UniProt]                                                                                                                                                                                                                                                                                 |
| Cellular Localization | Cytoplasm, perinuclear region. Cytoplasm. [UniProt]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Images



ARG42082 anti-PRKRA antibody WB image

Western blot: HepG2 stained with ARG42082 anti-PRKRA antibody.