

## Recombinant Mouse Prkra Protein, Myc/DDK-tagged

**Cat. No.** Prkra-5127M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length protein kinase, interferon inducible double stranded RNA dependent activator (Prkra), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	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. 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. 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.
<b>Molecular Mass</b>	34.4 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.

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**Concentration** >50 µg/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** Prkra protein kinase, interferon inducible double stranded RNA dependent activator [ Mus musculus (house mouse) ]

**Official Symbol** Prkra

**Synonyms** PRKRA; protein kinase, interferon inducible double stranded RNA dependent activator; 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; PRK; RAX; Pact; lear; AV120107

**Gene ID** 23992

**mRNA Refseq** NM\_011871

**Protein Refseq** NP\_036001

**UniProt ID** Q9WTX2

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