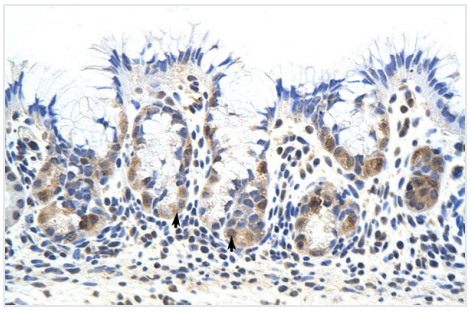
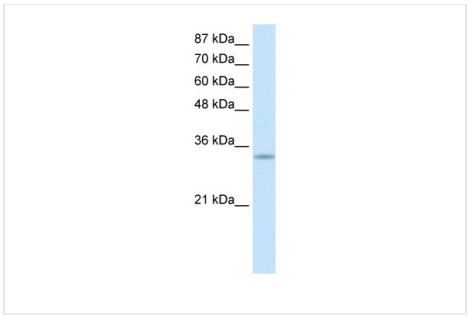
PRKRA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRKRA, Polyclonal Antibody
Full Product Name	PRKRA antibody - middle region
Product Gene Name	anti-PRKRA antibody
Product Synonym Gene Name	RAX; PACT; DYT16; HSD14
Immunogen Sequence	Synthetic peptide located within the following region: RLPEYTLSQE GGPAHKREYT TICRLESFME TGKGASKKQA KRNAAEKFLA
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	PRKRA peptide (MBS3230224) is used for blocking the activity of PRKRA antibody (MBS3205259)
Molecular Weight	34kDa
OMIM	603424
3D Structure	ModBase 3D Structure for O75569
Homology	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human PRKRA
Product Categories/Family for anti-PRKRA antibody	Polyclonal; RNA Binding Proteins; Lymphocyte Signaling; Immunology; DNA/RNA/Protein Interactions; Immunohistochemistry; Phosphorylation
Applications Tested/Suitable for anti-PRKRA antibody	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for anti-PRKRA antibody	This is a rabbit polyclonal antibody against PRKRA. It was validated on Western Blot and immunohistochemistry Target Description: PRKRA contains 3 DRBM (double-stranded RNA-binding) domains. It appears to have a pro-apoptotic function that may be suppressed in the presence of growth factor and activates EIF2AK2 in absence of double stranded RNA (dsRNA).
Other Notes	Small volumes of anti-PRKRA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PRKRA purchase	MBS3205259 is an antibody targeting PRKRA. Also known as PRKRA antibody - middle region. Reactive in Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-PRKRA antibody
Rabbit Anti-PRKRA AntibodyParaffin Embedded Tissue: Human StomachCellular Data: Epithelial cells of fundic glandAntibody Concentration: 4.0-8.0 ug/mlMagnification: 400X



Western Blot (WB) of anti-PRKRA antibody
WB Suggested Anti-PRKRA Antibody Titration: 0.2-1 ug/mlELISA Titer: 1:62500Positive Control: Jurkat cell lysatePRKRA is supported by BioGPS gene expression data to be expressed in Jurkat

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRKRA. It may not necessarily be applicable to this product.

NCBI GI #	4505581
NCBI GeneID	8575
NCBI Accession #	NP_003681
UniProt Primary Accession #	O75569
UniProt Related Accession #	O75569
GenBank Nucleotide #	NM_003690
NCBI Official Full Name	interferon-inducible double-stranded RNA-dependent protein kinase activator A isoform 1
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
UniProt Protein Name	Interferon-inducible double-stranded RNA-dependent protein kinase activator A
UniProt Synonym Protein Names	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
Protein Family	Interferon-inducible double-stranded RNA-dependent protein kinase activator
UniProt Gene Name	PRKRA
UniProt Synonym Gene Names	PACT; RAX
UniProt Entry Name	PRKRA_HUMAN
NCBI Protein Information	interferon-inducible double-stranded RNA-dependent protein kinase activator A
NCBI Summary for PRKRA	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]

UniProt Comments for PRKRA	PACT: a double strand RNA binding protein (dsRBP). Interacts with TRBP and Dicer to stimulate the cleavage of double-stranded or short hairpin RNA to siRNA. Appears to have a pro-apoptotic function that may be suppressed in the presence of growth factor. Activates the interferon-induced protein kinase PKR. Three alternatively spliced human isoforms have been reported. Protein type: Activator; RNA processing; RNA-binding Chromosomal Location of Human Ortholog: 2q31.2 Cellular Component: cytoplasm; cytosol; membrane; nucleoplasm Molecular Function: double-stranded RNA binding; enzyme binding; identical protein binding; protein binding; protein homodimerization activity Biological Process: immune response; miRNA-mediated gene silencing, production of miRNAs; negative regulation of cell proliferation; pre-microRNA processing; response to virus; RNA interference, production of siRNA; RNA-mediated gene silencing Disease: Dystonia 16
Research Articles on PRKRA	**1.** The antiviral activity of PACT is mediated primarily via its interaction with and inhibition of IAV polymerase.
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