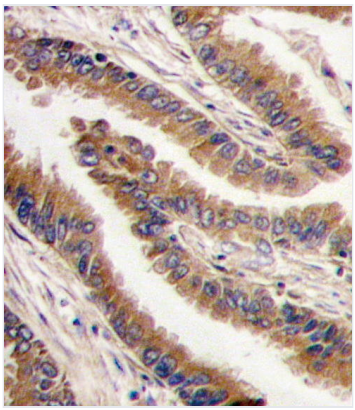
# PRKX Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PRKX, Polyclonal Antibody |
| **Full Product Name** | PRKX, CT (Protein Kinase PKX1, Serine/Threonine-protein Kinase PRKX, PKX1) (PE) |
| **Product Gene Name** | anti-PRKX antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE). |
| **Purity/Purification** | Purified by Protein G Affinity Chromatography. |
| **Specificity** | Recognizes human PRKX. Species Crossreactivity: mouse. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 40,896 Da |
| **Chromosome Location** | Chromosome: X; NC_000023.10 (3522384..3631675, complement). Location: Xp22.3 |
| **OMIM** | 300083 |
| **3D Structure** | ModBase 3D Structure for P51817 |
| **Immunogen** | Synthetic peptide selected from the C-terminal region of human PRKX (KLH). |
| **Conjugate** | PE |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-PRKX antibody** | Antibodies; Protein Kinases |
| **Applications Tested/Suitable for anti-PRKX antibody** | Immunohistochemistry (IHC), FLISA, Western Blot (WB) |
| **Application Notes for anti-PRKX antibody** | IHC: 1:10-1:50<br>FLISA: 1:1,000<br>WB: 1:100-1:500<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-PRKX antibody** | MBS6495366 is an antibody targeting PRKX. Also known as PRKX, CT (Protein Kinase PKX1, Serine/Threonine-protein Kinase PRKX, PKX1) (PE). Reactive in Human, Mouse. Host: Rabbit. |
| **Product References and Citations for anti-PRKX antibody** | 1. Li, X., et al., Proc. Natl. Acad. Sci. USA 99(14):9260-9265 (2002). 2. Klink, A., et al., Hum. Mol. Genet. 4(5):869-878 (1995). |
| **Other Notes** | Small volumes of anti-PRKX 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. |



**Immunohistochemistry (IHC) of anti-PRKX antibody**
Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with PRKX antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 4826948 |
| **NCBI GeneID** | 5613 |
| **NCBI Accession #** | NP_005035.1 |
| **UniProt Primary Accession #** | P51817 |
| **UniProt Related Accession #** | P51817 |
| **GenBank Nucleotide #** | NM_005044.4 |
| **NCBI Official Full Name** | cAMP-dependent protein kinase catalytic subunit PRKX |
| **NCBI Official Synonym Full Names** | protein kinase, X-linked |
| **NCBI Official Symbol** | PRKX |
| **NCBI Official Synonym Symbols** | PKX1 |
| **UniProt Protein Name** | cAMP-dependent protein kinase catalytic subunit PRKX |
| **UniProt Synonym Protein Names** | Protein kinase PKX1 |
| **Protein Family** | cAMP-dependent protein kinase |
| **UniProt Gene Name** | PRKX |
| **UniProt Synonym Gene Names** | PKX1; PrKX; Protein kinase X; Protein kinase X-linked |
| **UniProt Entry Name** | PRKX_HUMAN |
| **NCBI Protein Information** | cAMP-dependent protein kinase catalytic subunit PRKX; protein kinase X; protein kinase PKX1; protein kinase X-linked; serine/threonine-protein kinase PRKX |
| **NCBI Summary for PRKX** | This gene encodes a serine threonine protein kinase that has similarity to the catalytic subunit of cyclic AMP dependent protein kinases. The encoded protein is developmentally regulated and may be involved in renal epithelial morphogenesis. This protein may also be involved in macrophage and granulocyte maturation. Abnormal recombination between this gene and a related pseudogene on chromosome Y is a frequent cause of sex reversal disorder in XX males and XY females. Pseudogenes of this gene are found on chromosomes X, 15 and Y. [provided by RefSeq, Feb 2010] |

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| **UniProt Comments for PRKX** | PRKX: Serine/threonine protein kinase regulated by and mediating cAMP signaling in cells. Acts through phosphorylation of downstream targets that may include CREB, SMAD6 and PKD1 and has multiple functions in cellular differentiation and epithelial morphogenesis. Regulates myeloid cell differentiation through SMAD6 phosphorylation. Involved in nephrogenesis by stimulating renal epithelial cell migration and tubulogenesis. Also involved in angiogenesis through stimulation of endothelial cell proliferation, migration and vascular-like structure formation. A chromosomal aberration involving PRKX is a cause of sex reversal disorder. Translocation t(X;Y)(p22;p11) with PRKY. Chromosomal translocations proximal to PRKY account for about 30% of the cases of sex reversal disorder in XX males and XY females. Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. cAMP subfamily.<br><br>Protein type: Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Protein kinase, AGC; EC 2.7.11.1; AGC group; PKA family<br><br>Chromosomal Location of Human Ortholog: Xp22.3<br><br>Cellular Component: cytoplasm; nucleus<br><br>Molecular Function: protein binding; cAMP-dependent protein kinase activity; ATP binding<br><br>Biological Process: regulation of cell adhesion; peptidyl-serine phosphorylation; protein amino acid autophosphorylation; endothelial cell proliferation; endothelial cell migration; myeloid cell differentiation; angiogenesis; cell adhesion; regulation of cell migration; cell-substrate adhesion |
| **Research Articles on PRKX** | **1.** findings reveals a major role of PRKX, TTBK2 and RSK4 in triggering Sunitinib resistance formation; data suggest transcriptional regulation of these kinases together with other proteins might play an important role in formation of Sunitinib resistance by affecting transcription factors |
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