

Rabbit PRKX Polyclonal Antibody | anti-PRKX antibody

PRKX Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325123	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

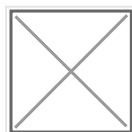
PRODUCT SYNONYMS

PRKX; Polyclonal Antibody; PRKX Antibody; PKX1; PRKX_HUMAN; Protein kinase PKX1; Serine/threonine-protein kinase PRKX; anti-PRKX antibody

PRODUCT SPECIFICATIONS

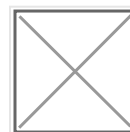
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PRKX antibody detects endogenous levels of total PRKX
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	358
Applicable Applications for anti-PRKX antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus
Tissue Specificity	Widely expressed (at protein level). Specifically expressed in blood by macrophages and granulocytes according to PubMed:9860982.
Predicted Cross Reactivity	Pig, Zebrafish, Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Pig (94%), Zebrafish (87%), Horse (94%), Sheep (93%), Dog (94%), Chicken (94%), Xenopus (94%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA325123 at 1/100 staining Human gastric tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from MCF-7 cells, using PRKX antibody.



IF (Immunofluorescence)

AAA325123 staining A549 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKX antibody	Function: 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. Subunit Structure: Like other cAMP-dependent protein kinases, the inactive holoenzyme is probably composed of 2 PRKX catalytic subunits and a dimer of regulatory subunits. Interacts (cAMP-dependent) specifically with the regulatory subunits PRKAR1A and PRKAR1B. Compared to other cAMP-dependent serine/threonine protein kinases, does not interact with the 2 other PKA regulatory subunits PRKAR2A and PRKAR2B. Interacts with cAMP-dependent protein kinase inhibitor/PKI proteins; inhibits PRKX. Interacts with GPKOW. Interacts with SMAD6. Interacts with PKD1; involved in differentiation and controlled morphogenesis of the kidney. Interacts with PIN1 (via WW domain). Post-translational Modifications: Phosphorylated; autophosphorylates in vitro. Similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. cAMP subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4826948
NCBI GeneID	5613
NCBI Accession #	NP_005035.1
NCBI GenBank Nucleotide #	NM_005044.4
UniProt Accession #	P51817
Molecular Weight	Observed: 41 kD Predicted: 41 kDa
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
NCBI Protein Information	cAMP-dependent protein kinase catalytic subunit PRKX
UniProt Protein Name	cAMP-dependent protein kinase catalytic subunit PRKX
UniProt Gene Name	PRKX
UniProt Synonym Gene Names	PKX1; PrKX; Protein kinase X; Protein kinase X-linked; Serine/threonine-protein kinase PRKX

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.