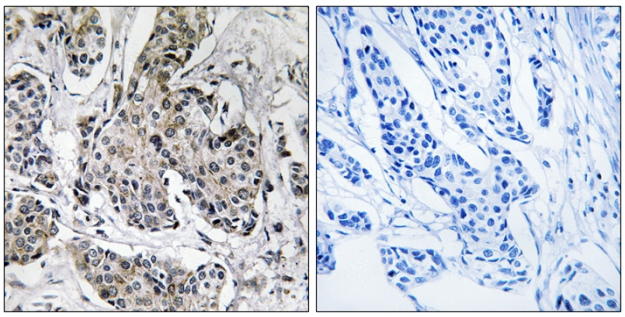
PRKX Polyclonal Antibody

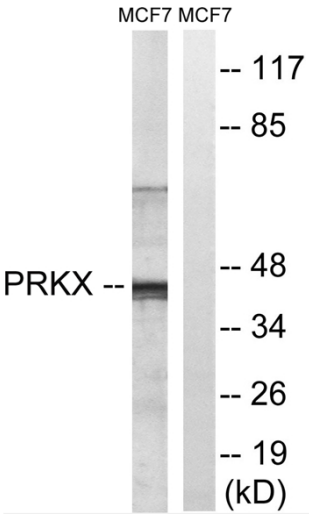
Catalog No	YP-Ab-14960
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	PRKX
Protein Name	cAMP-dependent protein kinase catalytic subunit PRKX
Immunogen	The antiserum was produced against synthesized peptide derived from human PRKX. AA range:251-300
Specificity	PRKX Polyclonal Antibody detects endogenous levels of PRKX protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PRKX; PKX1; cAMP-dependent protein kinase catalytic subunit PRKX; PrKX; Protein kinase X; Protein kinase X-linked; Serine/threonine-protein kinase PRKX; Protein kinase PKX1
Observed Band	41kD
Cell Pathway	Cytoplasm. Nucleus. cAMP induces nuclear translocation.
Tissue Specificity	Widely expressed (at protein level). Specifically expressed in blood by macrophages and granulocytes according to PubMed:9860982.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,disease: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.,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. cAMP subfamily.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 protein kinase domain.,tissue specificity:High levels in adult and fetal brain, kidney and lung; low levels in adult placenta, heart, liver, skeletal muscle, pancreas and fetal liver.,
Background	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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

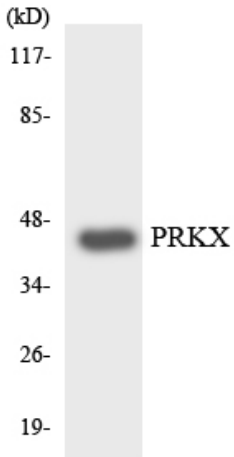
Products Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using PRKX Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from MCF-7 cells, using PRKX Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using PRKX antibody.