

Mouse PRKDC Monoclonal Antibody | anti-PRKDC antibody

PRKDC (Protein Kinase, DNA-Activated, Catalytic Polypeptide, DNA-PKcs, DNAPK, DNPk1, HYRC, HYRC1, XRCC7, p350) (Biotin)

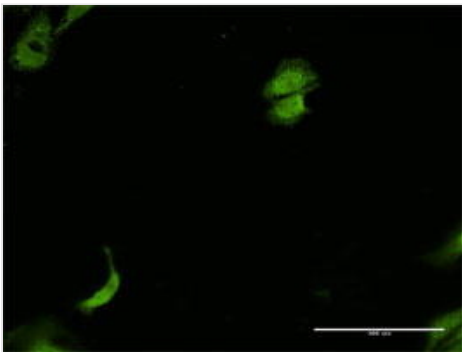
CATALOG # AAA26222	HOST Mouse	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

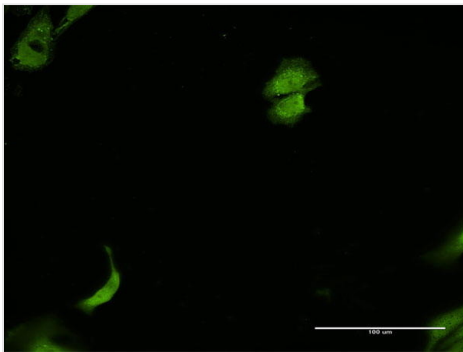
PRKDC; Monoclonal Antibody; PRKDC (Protein Kinase; DNA-Activated; Catalytic Polypeptide; DNA-PKcs; DNAPK; DNPk1; HYRC; HYRC1; XRCC7; p350) (Biotin); Protein Kinase; p350; anti-PRKDC antibody

PRODUCT SPECIFICATIONS

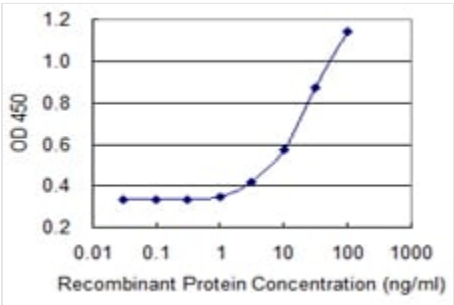
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2A8
Specificity	Recognizes PRKDC.
Purity/Purification	Purified
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Sequence Length	4128
Applicable Applications for anti-PRKDC antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	PRKDC (NP_008835, 4019aa-4128aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KMLKKGGSWIQEINVAEKNWYPRQKICYAKRKLAPANPAVITCDELLLGHEKAPAFRDYVAVARGSKDHNIRAQEPESGLSEETQVKCLMDQATDPNILG
Conjugate	Biotin
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in PBS. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.



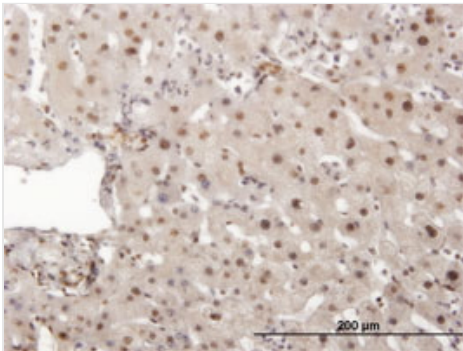
IF (Immunofluorescence)
Immunofluorescence of monoclonal antibody to PRKDC on HeLa cell. [antibody concentration 40 ug/ml]



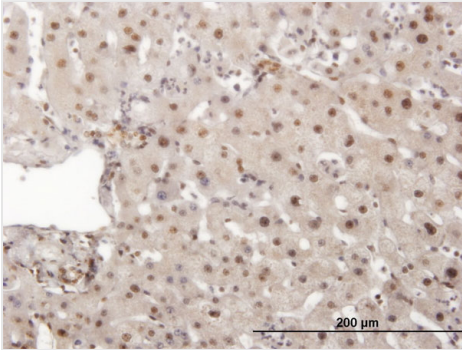
IF (Immunofluorescence)
Immunofluorescence of monoclonal antibody to PRKDC on HeLa cell. [antibody concentration 40 ug/ml]



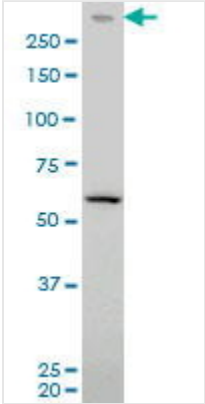
Application Data
Detection limit for recombinant GST tagged PRKDC is 1 ng/ml as a capture antibody.



IHC (Immunohistochemistry)
Immunoperoxidase of monoclonal antibody to PRKDC on formalin-fixed paraffin-embedded human liver. [antibody concentration 3 ug/ml]



IHC (Immunohistochemistry)
Immunoperoxidase of monoclonal antibody to PRKDC on formalin-fixed paraffin-embedded human liver. [antibody concentration 3 ug/ml]



WB (Western Blot)
PRKDC monoclonal antibody (M03), clone 2A8 Western Blot analysis of PRKDC expression in Hela S3 NE.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKDC antibody	The PRKDC gene encodes the catalytic subunit of a nuclear DNA-dependent serine/threonine protein kinase (DNA-PK). The second component is the autoimmune antigen Ku (MIM 152690), which is encoded by the G22P1 gene on chromosome 22q. On its own, the catalytic subunit of DNA-PK is inactive and relies on the G22P1 component to direct it to the DNA and trigger its kinase activity; PRKDC must be bound to DNA to express its catalytic properties. [supplied by OMIM]
Product Categories/Family for anti-PRKDC antibody	Antibodies; Protein Kinases

NCBI AND UNIPROT INFORMATION

NCBI GI #	13654237
NCBI GeneID	5591
NCBI Accession #	NP_008835
NCBI GenBank Nucleotide #	NP_008835.5
UniProt Accession #	P78527
NCBI Official Full Name	DNA-dependent protein kinase catalytic subunit isoform 1
NCBI Official Synonym Full Names	protein kinase, DNA-activated, catalytic subunit
NCBI Official Symbol	PRKDC
NCBI Official Synonym Symbols	HYRC; p350; DNAPK; DNPk1; HYRC1; IMD26; XRCC7; DNAPKc; DNA-PKC; DNA-PKcs
NCBI Protein Information	DNA-dependent protein kinase catalytic subunit
UniProt Protein Name	DNA-dependent protein kinase catalytic subunit
UniProt Gene Name	PRKDC
UniProt Synonym Gene Names	HYRC; HYRC1; DNA-PK catalytic subunit; DNA-PKcs
UniProt Entry Name	PRKDC_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/prkdc-antibody-clone-2a8-immunofluorescence-immunohistochemistry-western-blot-elisa/26222>