

Rabbit PLK2 Polyclonal Antibody | anti-PLK2 antibody

Anti-PLK2 antibody

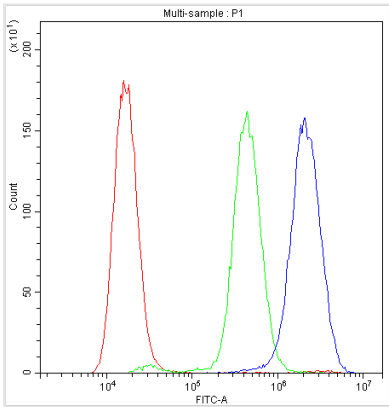
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45425	Rabbit	Human, Mouse, Rat	Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PLK2; Polyclonal Antibody; Anti-PLK2 antibody; Serine/threonine-protein kinase PLK2; polo-like kinase 2; hPlk2 antibody; hSNK antibody; PLK-2 antibody; Plk2 antibody; PLK2_HUMAN antibody; Polo like kinase 2 antibody; Polo-like kinase 2 antibody; Serine/threonine protein kinase PLK2 antibody; Serine/threonine protein kinase SNK antibody; Serine/threonine-protein kinase PLK2 antibody; Serine/threonine-protein kinase SNK antibody; Serum Induced Kinase antibody; Serum-inducible kinase antibody; SNK antibody; anti-PLK2 antibody

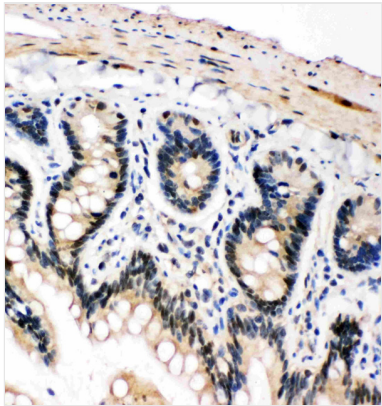
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	685
Applicable Applications for anti-PLK2 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PLK2 (666-685aa SSELKNRMEYALNMLLQRCN), different from the related mouse sequence by one amino acid, and from the related rat sequence by two amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



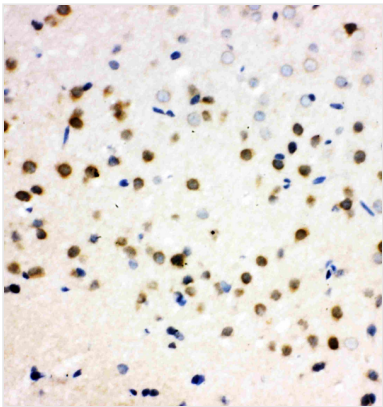
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of A549 cells using anti-PLK2 antibody (AAA45425).Overlay histogram showing A549 cells stained with AAA45425 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PLK2 Antibody (AAA45425,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



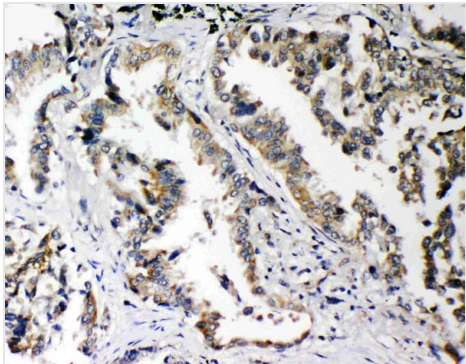
IHC (Immunohistochemisry)

Figure 3. IHC analysis of PLK2/Snk using anti- PLK2/Snk antibody (AAA45425).PLK2/Snk was detected in paraffin-embedded section of rat intestine tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- PLK2/Snk Antibody (AAA45425) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



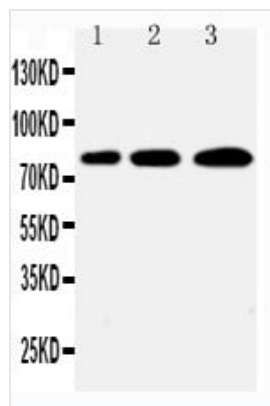
IHC (Immunohistochemistry)

Figure 4. IHC analysis of PLK2/Snk using anti- PLK2/Snk antibody (AAA45425).PLK2/Snk was detected in paraffin-embedded section of rat brain tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- PLK2/Snk Antibody (AAA45425) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of PLK2/Snk using anti- PLK2/Snk antibody (AAA45425).PLK2/Snk was detected in paraffin-embedded section of human lung cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- PLK2/Snk Antibody (AAA45425) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of PLK2/Snk using anti- PLK2/Snk antibody (AAA45425). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: A431 Cell Lysate Lane 2: 293T Cell Lysate Lane 3: COLO-320 Cell Lysate After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- PLK2/Snk antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS- 0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PLK2/Snk at approximately 78KD. The expected band size for PLK2/Snk is at 77KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PLK2 antibody

Description: Rabbit IgG polyclonal antibody for Serine/threonine-protein kinase PLK2(PLK2) detection. Tested with WB, IHC-P, ICC in Human, Mouse, Rat.

Background: Polo-like kinase2, also known as SNK is an enzyme that in humans is encoded by the PLK2 gene. PLK2 is a member of the "polo" family of serine/threonine protein kinases that have a role in normal cell division. The International Radiation Hybrid Mapping Consortium mapped the SNK gene to chromosome 5. SNK involved in synaptic plasticity, centriole duplication and G1/S phase transition. This gene plays a key role in synaptic plasticity and memory by regulating the Ras and Rap protein signalin: required for overactivity-dependent spine remodeling by phosphorylating the Ras activator RASGRF1 and the Rap inhibitor SIPA1L1 leading to their degradation by the proteasome.

NCBI AND UNIPROT INFORMATION

NCBI GI #	22096374
NCBI GeneID	10769
UniProt Accession #	Q9NYY3; O60679; Q96CV7; Q9UE61
Molecular Weight	78,237 Da
NCBI Official Full Name	Serine/threonine-protein kinase PLK2
NCBI Official Synonym Full Names	polo-like kinase 2
NCBI Official Symbol	PLK2
NCBI Official Synonym Symbols	SNK; hSNK; hPlk2
NCBI Protein Information	serine/threonine-protein kinase PLK2; PLK-2; serum-inducible kinase; serine/threonine-protein kinase SNK
UniProt Protein Name	Serine/threonine-protein kinase PLK2
UniProt Gene Name	PLK2
UniProt Synonym Gene Names	SNK; PLK-2; hPlk2; hSNK

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/polyclonal/plk2-antibody-immunocytochemistry-immunohistochemistry-western-blot-elisa/45425>