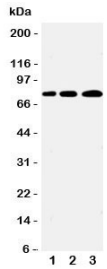
# PLK2 Antibody / Polo-like kinase 2 (R31246)

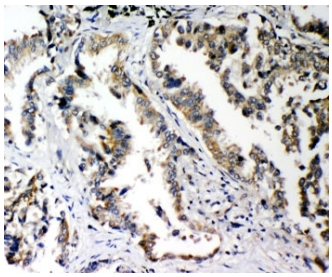
| Catalog No. | Formulation | Size |
|---|---|---|
| R31246 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

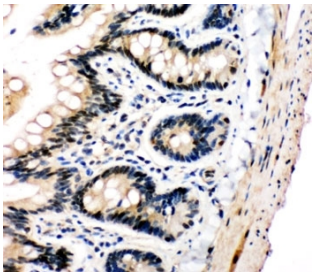
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| **UniProt** | Q9NYY3 |
| **Localization** | Cytoplasmic, nuclear |
| **Applications** | Western blot: 0.5-1ug/ml<br>IHC (FFPE): 0.5-1ug/ml<br>Immunocytochemistry: 0.5-1ug/ml<br>FACS: 1-3ug/10^6 cells |
| **Limitations** | This PLK2 antibody is available for research use only. |



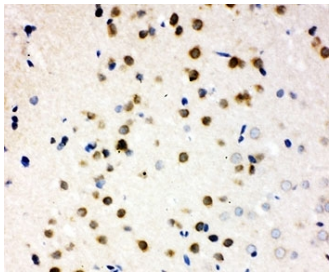

Western blot testing of PLK2 antibody and Lane 1: A431; 2: 293T; 3: COLO320 cell lysate. Predicted molecular weight ~78 kDa.



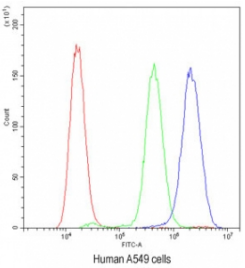
IHC-P: PLK2 antibody testing of human lung cancer tissue. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC-P: PLK2 antibody testing of rat intestine tissue. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC-P testing of PLK2 antibody and rat brain tissue. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.




Flow cytometry testing of human A549 cells with PLK2 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=PLK2 antibody.

## Description

Polo-like kinase 2, also known as SNK, is an enzyme that in humans is encoded by the PLK2 gene. It 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 gene to chromosome 5. Polo-like kinase 2 is 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.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the PLK2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of human Polo-like kinase 2 (SSELKNRMEYALNMLLQRCN) was used as the immunogen for this PLK2 antibody.

## Storage

After reconstitution, the PLK2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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