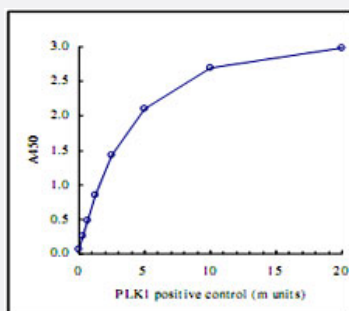


Polo-like kinase 1 (Human) Assay/Inhibitor Screening Assay Kit

Catalog # KA0065

Size 1 Kit

Applications



Dose dependent curve of recombinant Plk1 enzyme reaction.

Specification

Product Description

Polo-like kinase 1 (Human) Assay/Inhibitor Screening Assay Kit is a single-site, non-quantitative immunoassay for Plk1 activity. Plates are pre-coated with a substrate corresponding to recombinant Protein-X, which contains threonine residues that can be efficiently phosphorylated by Plk1. The detector antibody specifically detects only the phosphorylated form of threonine residue on Protein-X.

Assay Type

Quantitative

Reactivity

Human

Regulation Status

For research use only (RUO)

Quality Control Testing

Dose dependent curve
Dose dependent curve of recombinant Plk1 enzyme reaction.

Storage Instruction

Store the kit at 4°C.

Applications

- Functional Study

Gene Info — PLK1

Entrez GeneID	5347
Gene Name	PLK1
Gene Alias	PLK, STPK13
Gene Description	polo-like kinase 1 (Drosophila)
Omim ID	602098
Gene Ontology	Hyperlink
Other Designations	cell cycle regulated protein kinase polo (Drosophila)-like kinase polo like kinase polo-like kinase

Publication Reference

- [Inhibitory role of Plk1 in the regulation of p73-dependent apoptosis through physical interaction and phosphorylation.](#)

Koida N, Ozaki T, Yamamoto H, Ono S, Koda T, Ando K, Okoshi R, Kamijo T, Omura K, Nakagawara A.
The Journal of Biological Chemistry 2008 Mar; 283(13):8555.

- [Molecular taxonomy of major neuronal classes in the adult mouse forebrain.](#)

Sugino K, Hempel CM, Miller MN, Hattox AM, Shapiro P, Wu C, Huang ZJ, Nelson SB.
Nature Neuroscience 2006 Jan; 9(1):99.

- [ON01910, a non-ATP-competitive small molecule inhibitor of Plk1, is a potent anticancer agent.](#)

Gumireddy K, Reddy MV, Cosenza SC, Boominathan R, Baker SJ, Papathi N, Jiang J, Holland J, Reddy EP.
Cancer Cell 2005 Mar; 7(3):275.

Application: Func, Insect, HeLa cells

- [2-Amino-3-methylimidazo\[4,5-f\]quinoline inhibits nitric oxide production in lipopolysaccharide-stimulated RAW 264.7 cells by blocking p38 kinase activation.](#)

YW Lee, S H Han, M Lee, K H Yang, H M Kim, Y J Jeon.
Cancer Letters 2000 Aug; 156(2):133.

Pathway

- [Cell cycle](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Lung Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)