



## PRODUCT DATA SHEET

**Product:** Anti-chk1 kinase, Polyclonal

**Cat. No:** PC-175 (250 µg)

**Description:**

One mechanism by which checkpoints maintain the fidelity of cell cycle events is through blocking mitosis in response to unreplicated or damaged DNA. In most species this occurs through inhibiting activation of the cyclic-dependent kinase cdc2, which regulates entry into mitosis. Chk1, a kinase involved in the DNA damage checkpoint response can phosphorylate Cdc25C an activator of cdc2. It is hypothesized that chk1 induces serine 216 phosphorylation of Cdc 25C and subsequent binding negatively regulated Cdc25C, thus preventing it from activating cdc2.

**Specificity:**

Recognizes chk1 kinase.  
MW of antigen: 54 kDa.

**Species Reactivity:**

Human, monkey, mouse, and rat, other species not tested.

**Host:** Sheep

**Immunogen:**

GST fusion protein corresponding to amino acid sequence 1-474 of human chk1 kinase.

**Cellular Localization:** Cytoplasmic.

**Format:**

Provided as 0.2 µm sterile filtered solution in PBS with 0.08% sodium azide.

**Storage and Stability:**

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

**Applications and Suggested Dilutions:**

■ Western blot: Use 1-10 µg/ml.

The optimal dilution for a specific application should be determined by the researcher.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.