

#### ORDERING INFORMATION

Catalog Number: AF1358

Lot Number: HXF01

Size: 100 µg (for 100 mL blotting solution)

Formulation: 0.2 µm filtered solution in PBS

with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS and 0.02% NaN<sub>3</sub>

Specificity: human Chk2

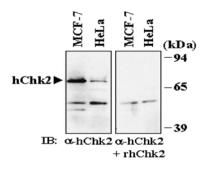
Immunogen: E. coli-derived recombinant

human Chk2, amino acids

208 - 543

Ig Type: affinity-purified goat IgG

Application: Western blot



Extracts from exponentially growing MCF-7 or HeLa cells were prepared, resolved by SDS-PAGE, and transferred to an Immobilon membrane. The membrane was immunblotted with 1.0 μg/mL goat anti-hChk2 antibody (*left panel*) or 1.0 μg/mL goat anti-hChk2 antibody preincubated with recombinant human Chk2 (rhChk2) (*right panel*). Migration of the hChk2 protein is consistent with a molecular weight of ~ 65 kDa, and preincubation with rhChk2 depletes the anti-hChk2 immunoreactivity.

## Affinity-purified Goat Anti-human Chk2 Antibody

## **Preparation**

Goat antibodies were raised against purified, *E. coli*-derived, <u>recombinant human</u> <u>Checkpoint kinase 2</u> (rhChk2). Polyclonal antibody was affinity-purified on a column derivatized with rhChk2 and further purified by isolating the IgG fraction.

## **Formulation**

Lyophilized from a 0.2  $\mu m$  filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

#### Reconstitution

Reconstitute the antibody with 100 µL of sterile PBS containing 0.02% NaN<sub>3</sub>.

### Storage

The reconstituted antibody should be aliquoted and stored at -20° C in a manual defrost freezer until use. Avoid repeated freeze/thaw cycles.

## **Specificity**

The antibody detects human Chk2.

## **Application**

Western blot - An antibody concentration of 1.0 μg/mL is recommended.

# **Protocols for Immunoblotting:** Western blotting

Blotting Buffer
25 mM Tris, pH 7.5
0.15 M NaCl
0.05% Tween 20

Blocking Solution
5% nonfat dry milk
in blotting buffer
pH to 7.5

- Transfer the electrophoresed proteins onto Immobilon membranes (Millipore) and incubate the membrane for 1 hour at room temperature in Blocking Solution.
- 2. Incubate the membrane for 4 hours at room temperature or overnight at 2 8° C in Blocking Solution containing 1.0 μg/mL goat anti-human Chk2.
- Wash the membrane at room temperature for 30 minutes with 3 or more changes of Blotting Buffer. Changing the membrane containers often reduces background.
- 4. Incubate the membrane at room temperature for 1 hour in Blocking Solution containing a 1:2,000 dilution of HRP-conjugated donkey anti-goat Ig (R&D Systems, Catalog # HAF109).
- Wash the membrane for 30 minutes with 3 or more changes of Blotting Buffer.
- 6. Detect with ECL Reagent.

**Cell lysates for western blotting:** To prepare total cell lysates, solubilize cells in 2X SDS gel sample buffer (20 mM dithiothreitol, 6% SDS, 0.25 M Tris, pH 6.8, 10% glycerol, and bromophenyl blue) and sonicate with a probe sonicator using 3 - 4 bursts of 5 - 10 seconds each. Heat extracts in a boiling water bath for 5 minutes and load onto polyacrylamide gels. Samples may be diluted with 1X SDS sample buffer to the desired concentration.

Optimal dilutions should be determined by the individual laboratory.