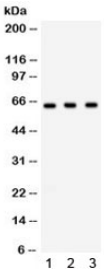
# Chk2 Antibody / CHEK2 (R31854)

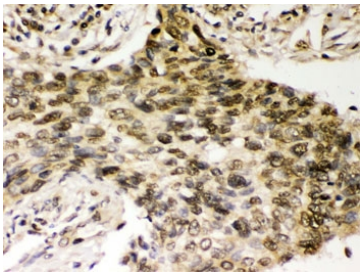
| Catalog No. | Formulation | Size |
|---|---|---|
| R31854 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**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 |
| **UniProt** | O96017 |
| **Localization** | Nuclear |
| **Applications** | Western blot: 0.1-0.5ug/ml<br>IHC (FFPE): 0.5-1ug/ml |
| **Limitations** | This Chk2 antibody is available for research use only. |




Western blot testing of 1) rat spleen, 2) mouse testis, 3) human SW620 lysate with Chk2 antibody. Expected molecular weight: ~61 kDa.



IHC testing of FFPE human lung cancer tissue with Chk2 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.

## Description

Chk2 is a serine/threonine-protein kinase which is required for checkpoint-mediated cell cycle arrest, activation of DNA repair and apoptosis in response to the presence of DNA double-strand breaks. May also negatively regulate cell cycle progression during unperturbed cell cycles. Following activation, phosphorylates numerous effectors preferentially at the consensus sequence [L-X-R-X-X-S/T]. Regulates cell cycle checkpoint arrest through phosphorylation of CDC25A, CDC25B and CDC25C, inhibiting their activity. [UniProt]

## Application Notes

Optimal dilution of the Chk2 antibody should be determined by the researcher.

## Immunogen

Amino acids KLLVVDPKARFTTEEALRHPWLQDEDMKRKFQDL of human Chk2/CHEK2 were used as the immunogen for the Chk2 antibody.

## Storage

After reconstitution, the Chk2 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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