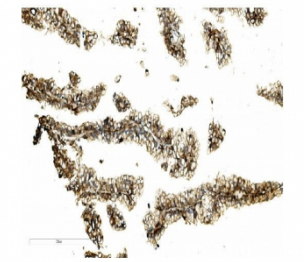
# MST-2 Antibody / STK3 (RQ5765)

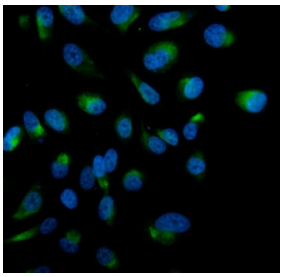
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ5765 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

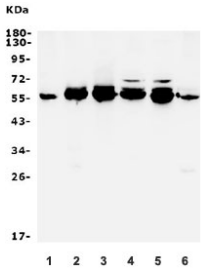
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Monkey |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide |
| **UniProt** | Q13188 |
| **Localization** | Nuclear, cytoplasmic |
| **Applications** | Western Blot : 0.5-1ug/ml<br>Immunohistochemistry : 1-2ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Immunofluorescence : 2-4ug/ml<br>Direct ELISA : 0.1-0.5ug/ml |
| **Limitations** | This MST-2 antibody is available for research use only. |



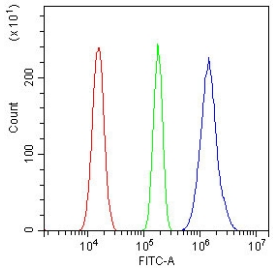
IHC staining of FFPE human renal cancer with MST-2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human PC-3 cells with MST-2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.




Western blot testing of 1) human placenta, 2) human HEK293, 3) monkey COS-7, 4) human HeLa, 5) human A549 and 6) monkey kidney lysate with MST-2 antibody. Predicted molecular weight: ~59/56 kDa (isoforms 1/2).




Flow cytometry testing of human U-87 MG cells with MST-2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MST-2 antibody.

## Description

Serine/threonine-protein kinase 3 is an enzyme that in humans is encoded by the STK3 gene. This gene encodes a serine/threonine protein kinase activated by proapoptotic molecules indicating the encoded protein functions as a growth suppressor. Cleavage of the protein product by caspase removes the inhibitory C-terminal portion. The N-terminal portion is transported to the nucleus where it homodimerizes to form the active kinase which promotes the condensation of chromatin during apoptosis. Multiple transcript variants encoding different isoforms have been found for this gene.

## Application Notes

Optimal dilution of the MST-2 antibody should be determined by the researcher.

## Immunogen

Recombinant human protein (amino acids E314-D456) was used as the immunogen for the MST-2 antibody.

## Storage

After reconstitution, the MST-2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.