

## RanGAP1 polyclonal antibody

Catalog: BS91152

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

The small Ras related protein Ran, also called TC4, is a nuclear localized GTPase implicated in a diverse array of cellular processes including DNA replication, entry into and exit from mitosis and the transport of RNA and proteins through the nuclear pore complex. Like Ras, active Ran GTP and inactive Ran GDP levels are tightly regulated by guanine nucleotide exchange factors (GEFs) and GTPase-activating proteins (GAPs). The abundant GEF RCC1 (regulator of chromosome condensation 1) increases the rate at which Ran exchanges GDP for GTP. Ran GAP1 opposes the effects of RCC1 by increasing the rate at which Ran hydrolyzes GTP to GDP. A protein designated Ran BP1 has no intrinsic GAP activity and functions as a GEF inhibitor deactivating RCC1 and thereby indirectly increasing the ratio of Ran GDP to Ran GTP. Ran BP2 has been proposed as the Ran GTP docking site at the periphery of the nuclear pore complex.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

64 kDa

### Swiss-Prot:

P46060(Human)

### Purification&Purity:

ProA affinity purified

### Applications:

WB:1:500-1:2,000

ICC/IF:1:100

IHC:1:50-1:200

FC:1:50-1:100

IP:1:10-1:50

### Storage&Stability:

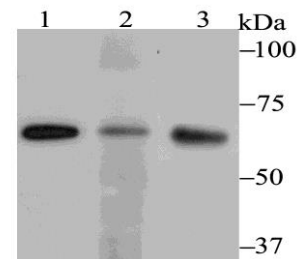
Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid

repeated freeze / thaw cycles.

### Specificity:

RanGAP1 polyclonal antibody detects endogenous levels of RanGAP1 protein.

### DATA:



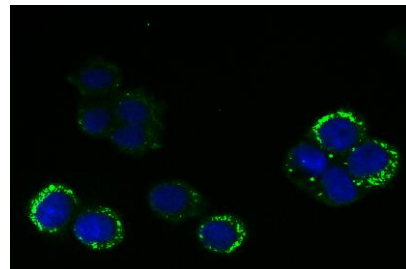
Western blot analysis of RanGAP1 on different cell lysates using anti-RanGAP1 antibody at 1/1,000 dilution.

Positive control:

Lane 1: MCF-7

Lane 2: SiHa

Lane 3: 293



ICC staining RanGAP1 (green) in 293T cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

### Note:

For research use only, not for use in diagnostic procedure.

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