

RANBP3

Reactivity:Human Mouse

Tested applications:WB IHC ICC IP FC

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:100 ICC 1:50 - 1:100 IP 1:50 - 1:100
FC 1:50 - 1:200

Calculated MW:100kDa

Observed MW:Refer to Figures

Immunogen:

Recombinant protein of human RANBP3

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

RANBP3;

Catalog #:A0955

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:8498

Isotype:IgG

Swiss Prot:Q9H6Z4

Purity:Affinity purification

For research use only.

Background:

RanBP3 is a protein with a RanBD1 domain that is found in both the nucleus and cytoplasm. It plays a role in nuclear export as part of a heteromeric complex (1). RanBP3 binds to the Crm1 transport receptor and inhibits the binding of unloaded Crm1 to the NPC. In addition, it increases the affinity of Crm1 for both Ran-GTP and nuclear export sequences. In this manner, RanBP3 coordinates efficient cargo loading and RanGTP binding (2). Moreover, RanBP3 has been shown to bind to RCC1 in a Ran-dependent manner and to increase the nucleotide exchange activity of RCC1, resulting in high concentrations of RanGTP in the vicinity of RCC1. Consequently, RanBP3 acts as a scaffold protein by which components of the export complex are concentrated around the RCC1 site, thus promoting complex assembly (3).

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