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Anti-RANBP1 Antibody

Catalog # AP51830

Product Information

Application	WB
Primary Accession	P43487
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23310

Additional Information

Gene ID	5902
Other Names	Ran-specific GTPase-activating protein; Ran-binding protein 1; RanBP1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RANBP1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

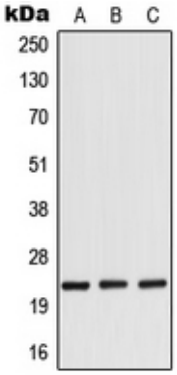
Protein Information

Name	RANBP1
Function	Plays a role in RAN-dependent nucleocytoplasmic transport. Alleviates the TNPO1-dependent inhibition of RAN GTPase activity and mediates the dissociation of RAN from proteins involved in transport into the nucleus (By similarity). Induces a conformation change in the complex formed by XPO1 and RAN that triggers the release of the nuclear export signal of cargo proteins (PubMed:20485264). Promotes the disassembly of the complex formed by RAN and importin beta. Promotes dissociation of RAN from a complex with KPNA2 and CSE1L (By similarity). Required for normal mitotic spindle assembly and normal progress through mitosis via its effect on RAN (PubMed:17671426). Does not increase the RAN GTPase activity by itself, but increases GTP hydrolysis mediated by RANGAP1 (PubMed:7882974). Inhibits RCC1- dependent exchange of RAN-bound GDP by GTP (PubMed:7616957, PubMed:7882974).

References

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Hayashi N.,et al.Mol. Gen. Genet. 247:661-669(1995).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).
Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).

Images



Western blot analysis of RANBP1 expression in HeLa (A), mouse brain (B), rat brain (C) whole cell lysates.
(Predicted band size: 23 kD; Observed band size: 27 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.