For Research Use Only

RanBP1 Polyclonal antibody

Catalog Number:27804-1-AP 4 Publications

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Basic Information

Catalog Number:
27804-1-AP

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG25714

GenBank Accession Number:

GeneID (NCBI):
5902

UNIPROT ID:
P43487

Full Name:
RAN binding protein 1

Observed MW:
28 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:400-1:1600
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF

Species Specificity:
Human, mouse

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse testis tissue, HEK-293 cells, mouse brain tissue, fetal human brain tissue, HeLa cells, RAW 264.7 cells, NIH/3T3 cells, 3T3-L1 cells

IHC : mouse testis tissue,

IF/ICC : NIH/3T3 cells, HeLa cells

Background Information

RanBP1 (Ran-binding protein 1) belongs to the RANBP1 family. RanBP1 plays a role in RAN-dependent nucleocytoplasmic transport. It alleviates the TNPO1-dependent inhibition of RAN GTPase activity and mediates the dissociation of RAN from proteins involved in transport into the nucleus. And RanBP1 induces a conformation change in the complex formed by XPO1 and RAN that triggers the release of the nuclear export signal of cargo proteins (PMID:20485264). RanBP1 promotes dissociation of RAN from a complex with KPNA2 and CSE1L. It required for normal mitotic spindle assembly and normal progress through mitosis via its effect on RAN (PMID:17671426). Also, RanBP1 inhibits RCC1-dependent exchange of RAN-bound GDP by GTP (PMID:7882974, PMID:7616957).

Notable Publications

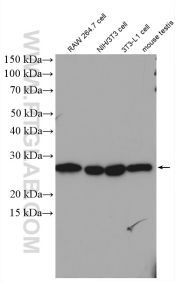
Author	Pubmed ID	Journal	Application
Yuqin Lei	33974430	J Med Chem	IF
Yuling Li	31021318	Elife	WB
Junying Wang	39806439	J Transl Med	IF

Storage

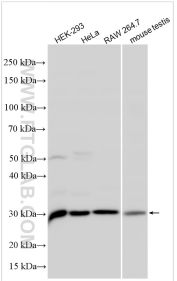
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

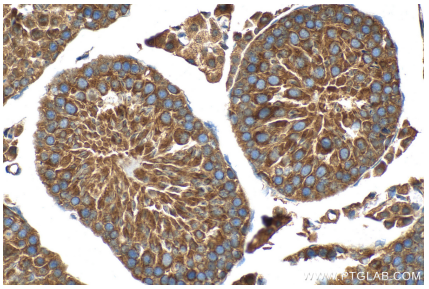
Selected Validation Data



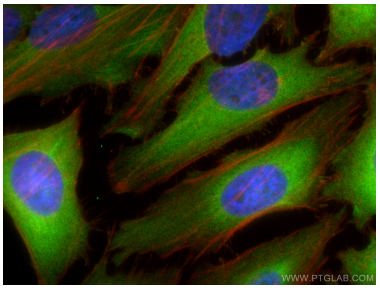
Various lysates were subjected to SDS PAGE followed by western blot with 27804-1-AP (RanBP1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



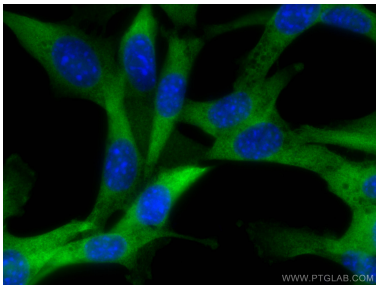
Various lysates were subjected to SDS PAGE followed by western blot with 27804-1-AP (RanBP1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 27804-1-AP (RanBP1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using RanBP1 antibody (27804-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using RanBP1 antibody (27804-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).