

RANBP3 ABfinity™ Recombinant Rabbit Monoclonal Antibody - Purified

Catalog no. 700076

(See product label for lot information)



Clone/PAD: B24H15L41
Isotype: IgG
Gene ID: 8498
Protein Acc. no.: O75761
Qty: 100 µg
Volume: 200 µl
Concentration: 0.5 mg/mL

Formulation

PBS + 0.09% sodium azide

Validation

Validated for use in WB and IF

Immunogen

recombinant protein of amino acids 151-228

Sequence Identity

human

Storage

2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

Expiration Date

Expires one year from date of receipt when stored as instructed.

Background

Ran binding protein 3 (RanBP3) is a member of Ran GTPase binding proteins that is located at the nuclear pore complex (NPC) and plays an essential role in the transport between cytoplasm and nucleus (1-2). RANPB3 is expressed as two spliced forms, RanBP3a and RanBP3b, both of which contains two FXFG motifs, characteristic of a subgroup of nucleoporins in addition to nuclear localization signal in the amino-terminal region (amino acid residues 40-57) and a unique acidic carboxyl terminus which is integral to its switch function(3).

References

1. Hendriksen J, Fagotto F, van der Velde H, van Schie M, Noordermeer J, Fornerod M. (2005) RanBP3 enhances nuclear export of active (beta)-catenin independently of CRM1. The Journal of Cell Biology, Vol. 171, No.5, pp. 785-97.
2. Mark E. Lindsay, James M. Holaska, Katie Welch, Bryce M. Paschal and Ian G. Macara (2001) Ran-Binding Protein 3 Is a Cofactor for Crm1- Mediated Nuclear Protein Export. The Journal of Cell Biology, Vol. 153, No. 7, pp. 1391-1402
3. Thorne, M.E. and C.J. Gottardi (2005) Terminating Wnt signals: a novel nuclear export mechanism targets activated (beta) -catenin. The Journal of Cell Biology, Vol. 171, No. 5, pp. 761-763.

Applications:

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

	Species	Test Material	Concentration
Western Blotting	human	Jurkat	0.5-2 µg/ml
Immunofluorescence	human	HeLa	5 µg/ml

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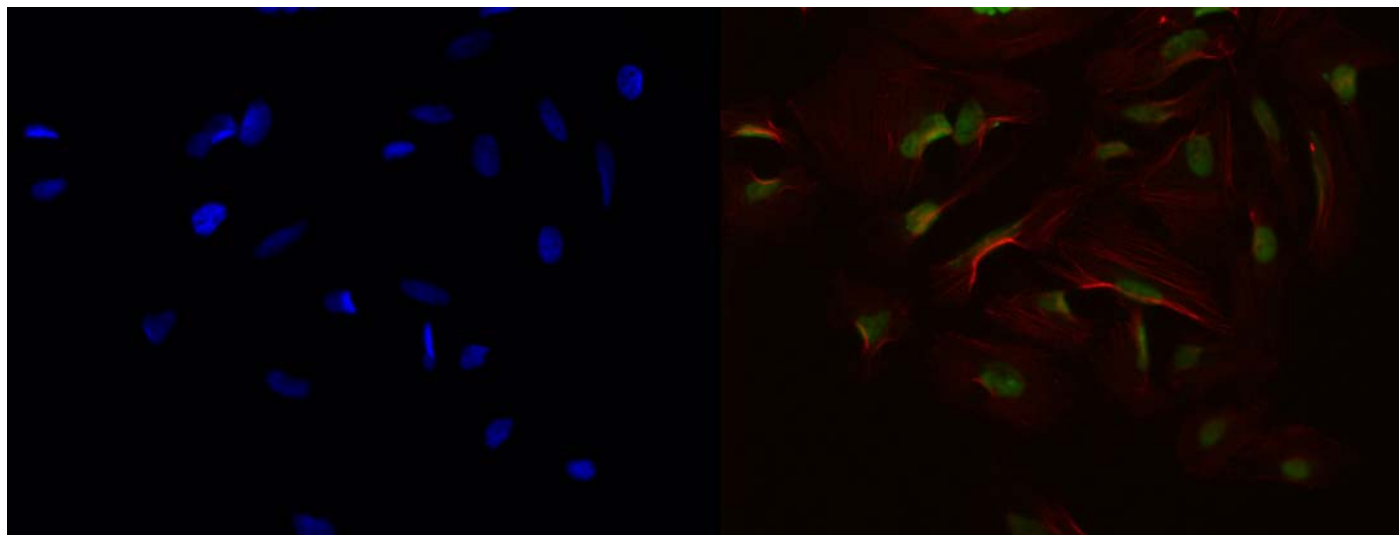
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PI700076 (DCC-10-1787) Rev 07/10

Page 1 of 2

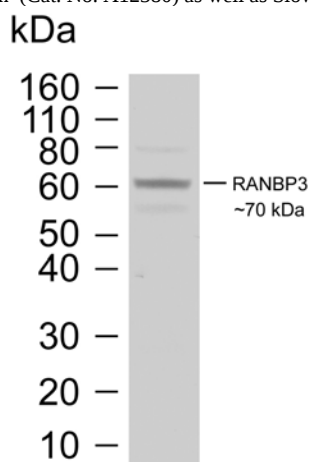
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Immunocytochemistry of HeLa cells labeled with rabbit anti-RANBP3 (Cat. No. 700076).

HeLa cells were labeled with rabbit anti-RANBP3 (5 µg/ml). Alexa Fluor® 488 goat anti-rabbit (Cat. No. A11008) at 1:1000 was used as secondary antibody, cells were counterstained with Alexa Fluor® 568 Phalloidin (Cat. No. A12380) as well as SlowFade® Gold with DAPI (S36936) before imaging.



Western blot of Jurkat cell lysate labeled with rabbit anti-RANBP3 (Cat. No. 700076).

Rabbit anti-RANBP3 was used at 0.5 µg/ml to detect RANBP3 in Jurkat cell lysate (30 µg/lane). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. No.WB7105).

Explanation of symbols			
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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Page 2 of 2

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