

Human RANBP3 antibody

Catalog Number: ATGA0310

PRODUCT INFORMATION

Catalog number

ATGA0310

Clone No.

AT12E11

Product type

Monoclonal Antibody

UnitProt No.

Q9H6Z4

NCBI Accession No.

NP_015559

Alternative Names

Ran-binding protein 3 isoform RANBP3-b, RAN binding protein 3

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human RANBP3 (235-445aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

The GTPase Ran is a small protein that belongs to the RAS protein superfamily and is found associated with the nuclear membrane. Ran GTPase is essential for mRNA processing, nuclear transport, cell cycle control, mitotic spindle assembly, and postmitotic nuclear re-assembly and nuclear architecture maintenance. Ran binding proteins (RanBPs) belong to a family of proteins that bind Ran GTPase and help to stimulate its GTPase activity. Members of the RanBP family show weak similarity to importin beta, a protein involved in the transport of proteins to the nuclear membrane. Recently it has been shown that RanBP3 function is regulated by the Ras/ERK/RSK and PI3K/Akt signaling pathway. This finding has provided a link between nuclear transport, cell signaling, and cell fate.

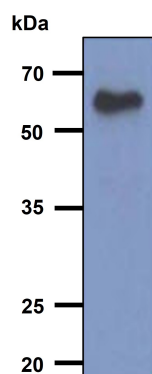
General References

Englmeier L , (2001) EMBO Rep. 2(10):926-32.

Mueller L, (1998) FEBS Lett. 427(3):330-6.

DATA

Western blot analysis (WB)



The cell lysates of Jurkat (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human RANBP3 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.