Product information

Monoclonal anti-human RANBP3 antibody (Clone AT12E11)

Mouse IgG_1, κ

Cat. No. IBATGA0310

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

NCBI Accession No.: NP_015559

Isotype: Mouse IgG_1 heavy chain and κ light chain

Clone: Anti-human RANBP3 mAb, clone AT12E11, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human RANBP3 protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:500.

Application: ELISA, WB

Manufactured for:
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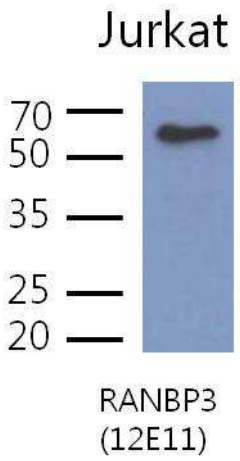
Western blot analysis

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.



General references:

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

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

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