

Product datasheet for **AM50334PU-S**

RANBP3 Mouse Monoclonal Antibody [Clone ID: AT12E11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT12E11
Applications:	ELISA, WB
Recommended Dilution:	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.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human RANBP3 (235-445aa) purified from E. coli.
Specificity:	Recognizes Human RANBP3. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	RAN binding protein 3
Database Link:	Entrez Gene 8498 Human Q9H6Z4



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Background:

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.

Synonyms:

Ran-binding protein 3