

## Product datasheet for **AM05291PU-N**

### **RIT2 Mouse Monoclonal Antibody [Clone ID: 27G2]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	27G2
Applications:	IHC, WB
Recommended Dilution:	<b>Western Blot</b> (0.5-1 µg/ml). <b>Immunohistochemistry on Paraffin Sections.</b>
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from mice immunized with full-length recombinant Human Rin protein and mouse myeloma cells.
Specificity:	This antibody detects recombinant Rin protein expressed in 293 cells. Does not cross-react with Rit protein.
Formulation:	20mM Sodium Phosphate, 150mM Sodium Chloride, 50% Glycerol at pH 7.5 and 3mM Sodium Azide as preservative. State: Purified State: Liquid (sterile filtered) purified IgG fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	Ras like without CAAX 2
Database Link:	<a href="#">Entrez Gene 6014 Human Q99578</a>



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**Background:**

Rit and its neuron-specific homologue Rin, define a recently discovered subfamily of Ras-related GTPases. Rit and Rin are membrane-associated in spite of the fact that they lack a CAAX box or similar C-terminal lipidation motif. Rit and Rin display 64% amino acid sequence identity and share a unique nine amino acid effector domain (DPTIEDAYK) that is 100% conserved between the murine and human proteins. Although the effector domain sequences of Rit and Rin are very similar to that of Ras, Rit and Rin have been shown to interact with the known Ras-binding proteins RaGDS, Rlf and AF-6, but not the Raf kinases, RIN1 or the p110 subunit of PI3 kinase. For this reason, it has been suggested that Rit and Rin may play important roles in the regulation of signaling pathways distinct from those controlled by Ras.

**Synonyms:**

RIN, ROC2

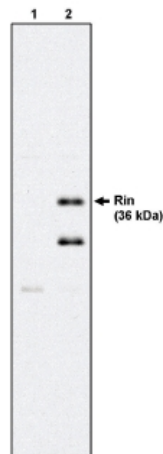
**Note:****Predicted Molecular Weight:** 36 kDa**Product images:**

Figure 1. Western blot analysis using Rin antibody on 293 cells expressing HA-tagged Rit (Lane 1) and HA-tagged Rin (Lane 2).