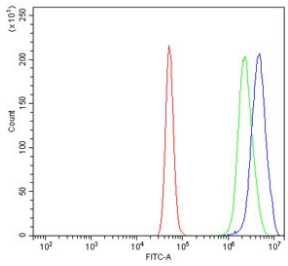
# Argonaute 1 Antibody / AGO1 (RQ6709)

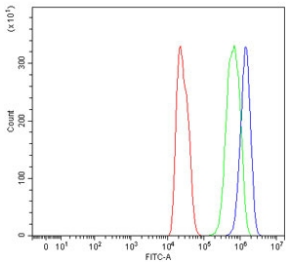
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6709 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

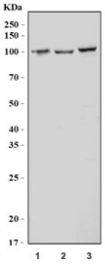
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Predicted Reactivity** | Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | Q9UL18 |
| **Applications** | Western Blot : 1-2ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Direct ELISA : 0.1-0.5ug/ml |
| **Limitations** | This Argonaute 1 antibody is available for research use only. |




Flow cytometry testing of human A431 cells with Argonaute 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Argonaute 1 antibody.




Flow cytometry testing of rat C6 cells with Argonaute 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Argonaute 1 antibody.




Western blot testing of 1) human PC-3, 2) rat brain and 3) mouse brain tissue lysate with Argonaute 1 antibody. Predicted molecular weight ~97 kDa.

## Description

This gene encodes a member of the argonaute family of proteins, which associate with small RNAs and have important roles in RNA interference (RNAi) and RNA silencing. This protein binds to microRNAs (miRNAs) or small interfering RNAs (siRNAs) and represses translation of mRNAs that are complementary to them. It is also involved in transcriptional gene silencing (TGS) of promoter regions that are complementary to bound short antigene RNAs (agRNAs), as well as in the degradation of miRNA-bound mRNA targets. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A recent study showed this gene to be an authentic stop codon readthrough target, and that its mRNA could give rise to an additional C-terminally extended isoform by use of an alternative in-frame translation termination codon.

## Application Notes

Optimal dilution of the Argonaute 1 antibody should be determined by the researcher.

## Immunogen

Recombinant human protein (amino acids E376-R409) was used as the immunogen for the Argonaute 1 antibody.

## Storage

After reconstitution, the Argonaute 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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