

## Product datasheet

# Anti-Argonaute 5 antibody ab4723

★★★★★ 1 Abreviews 2 Images

### Overview

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<b>Product name</b>	Anti-Argonaute 5 antibody
<b>Description</b>	Rabbit polyclonal to Argonaute 5
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab4723 detects a band of ~ 75 kDa in P19 embryonic carcinoma lysate. The predicted molecular weight of murine Argonaute 5 is 72 kDa according to Swissprot entry Q8CGT7. (This represents a partial sequence) Other bands of 85, 160 and 250 kDa are also detected which may be non-specific binding or alternatively may correspond to the full length Argonaute 5.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Synthetic peptide conjugated to KLH derived from within residues 50 - 150 of Mouse Argonaute 5. Read Abcam's proprietary immunogen policy
<b>Positive control</b>	This antibody gave a positive signal in F9 whole cell lysate.
<b>General notes</b>	Swiss prot Q8CGT7 - fragment

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab4723** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆	1/1000. Detects a band of approximately 75 kDa (predicted molecular weight: 72 kDa).

## Target

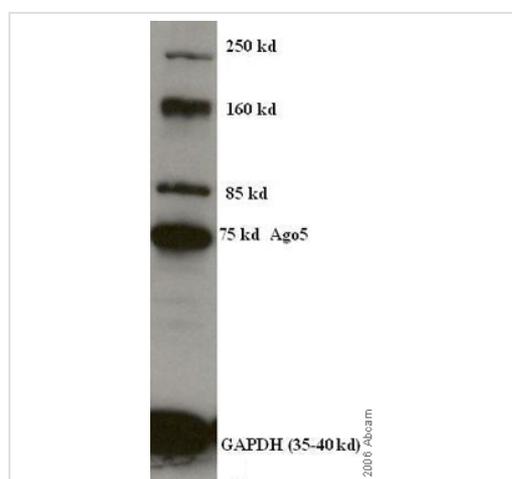
### Relevance

Argonaute proteins make up a highly conserved family whose members have been implicated in RNAi and related phenomena in several organisms. In addition to roles in RNAi-like mechanisms, Argonaute proteins influence development, and at least a subset are involved in stem cell fate determination. Argonaute proteins are ~100-kD highly basic proteins that contain two common domains, namely PAZ and PIWI domains (Cerutti et al. 2000). The PAZ domain, consisting of 130 amino acids, has been identified in Argonaute proteins and in Dicer (Bernstein et al. 2001a). Although it has no defined function, PAZ is thought to be a protein-protein interaction domain, potentially mediating both homo- and heterodimerization (Cerutti et al. 2000). There are several reports that Argonaute proteins, being highly basic, might bind RNA. Miwi, a murine homolog of Piwi, exists in a complex with its target mRNAs in vivo (Deng and Lin 2002). Furthermore, Drosophila Ago1 has been shown to bind ribohomopolymers in vitro (Kataoka et al. 2001). Of course, the involvement of Argonaute proteins in RNAi and related phenomena presupposes an interaction with RNA, either directly or indirectly. However, detailed studies of Argonaute structure and biochemistry will be required to reveal its precise function in RNA metabolism.

### Cellular localization

Nuclear

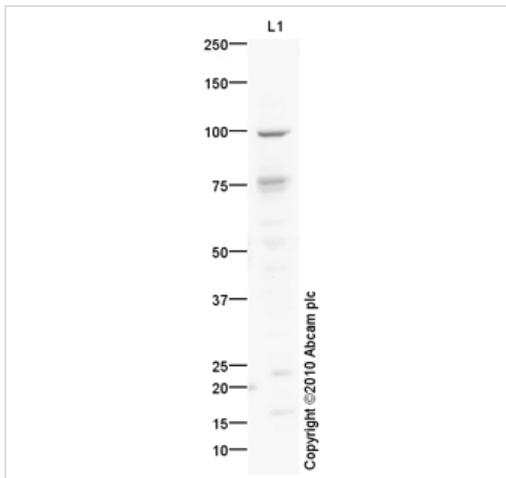
## Images



30µg of p19 murine embryonic carcinoma cell lysate was run on an SDS-PAGE and incubated for 12 hours with ab4723 (1/1000 dilution). A specific band of ~ 75 kDa is detected.

Western blot - Anti-Argonaute 5 antibody (ab4723)

This image was submitted as part of a review by Aarti Jagannath



Western blot - Anti-Argonaute 5 antibody (ab4723)

Anti-Argonaute 5 antibody (ab4723) at 1 µg/ml + F9 (Mouse embryonic carcinoma cell line) Whole Cell Lysate at 10 µg

**Secondary**

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 72 kDa

**Observed band size:** 75 kDa

[why is the actual band size different from the predicted?](#)

**Additional bands at:** 100 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 2 minutes

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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