-online.com antibodies

## Datasheet for ABIN7165093 anti-AGO2 antibody (AA 517-818) (FITC)



$\sim$				•			
( )	\ /	0	r١	/1	0	۸ ۱	1
J	v	-	I \	/ I	-	v	v
$\sim$	۷	$\sim$			$\sim$	٧	۷

Quantity:	100 µg
Target:	AG02
Binding Specificity:	AA 517-818
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AGO2 antibody is conjugated to FITC
Application:	Please inquire

## Product Details

Immunogen:	Recombinant Human Protein argonaute-2 protein (517-818AA)
lsotype:	lgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	AG02	
Alternative Name:	AG02 (AG02 Products)	
Background:	Background: Required for RNA-mediated gene silencing (RNAi) by the RNA-induced silencing	
	complex (RISC). The minimal RISC appears to include AGO2 bound to a short guide RNA such	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN7165093 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

as a microRNA (miRNA) or short interfering RNA (siRNA). These guide RNAs direct RISC to
complementary mRNAs that are targets for RISC-mediated gene silencing. The precise
mechanism of gene silencing depends on the degree of complementarity between the miRNA
or siRNA and its target. Binding of RISC to a perfectly complementary mRNA generally results
in silencing due to endonucleolytic cleavage of the mRNA specifically by AGO2. Binding of RISC
to a partially complementary mRNA results in silencing through inhibition of translation, and
this is independent of endonuclease activity. May inhibit translation initiation by binding to the
7-methylguanosine cap, thereby preventing the recruitment of the translation initiation factor
eIF4-E. May also inhibit translation initiation via interaction with EIF6, which itself binds to the
60S ribosomal subunit and prevents its association with the 40S ribosomal subunit. The
inhibition of translational initiation leads to the accumulation of the affected mRNA in
cytoplasmic processing bodies (P-bodies), where mRNA degradation may subsequently occur.
In some cases RISC-mediated translational repression is also observed for miRNAs that
perfectly match the 3' untranslated region (3-UTR). Can also up-regulate the translation of
specific mRNAs under certain growth conditions. Binds to the AU element of the 3-UTR of the
TNF (TNF-alpha) mRNA and up-regulates translation under conditions of serum starvation. Also
required for transcriptional gene silencing (TGS), in which short RNAs known as antigene RNAs
or agRNAs direct the transcriptional repression of complementary promoter regions.
Aliases: Ago 2 antibody, AGO2_HUMAN antibody, Argonaute 2 antibody, argonaute 2, RISC
catalytic component antibody, Argonaute RISC catalytic component 2 antibody, Argonaute2
antibody, CTA-204B4.6 antibody, dAgo2 antibody, eIF 2C 2 antibody, eIF-2C 2 antibody, eIF2C 2
antibody, Eif2c2 antibody, Eukaryotic translation initiation factor 2C 2 antibody, Eukaryotic
translation initiation factor 2C subunit 2 antibody, hAgo2 antibody, MGC3183 antibody, PAZ
Piwi domain protein antibody, PPD antibody, Protein argonaute-2 antibody, Protein slicer
antibody, Q10 antibody, Slicer protein antibody

UniProt:	Q9UKV8
Pathways:	Fc-epsilon Receptor Signaling Pathway, Regulatory RNA Pathways, EGFR Signaling Pathway,
	Neurotrophin Signaling Pathway, Ribonucleoprotein Complex Subunit Organization

## **Application Details**

Restrictions:	For Research Use only
Handling	
Format:	Liquid

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN7165093 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

1.1		
	lond	lina
	anu	
		···· 9

Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be
	handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.