

Recombinant Full Length Human AGO1 Protein, GST-tagged

Cat. No. AGO1-4569HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human EIF2C1 full-length ORF (NP_036331.1, 1 a.a. - 857 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	857 amino acids
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 antigenic 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. [provided by RefSeq, Nov 2015]
Molecular Mass	123.6 kDa
AA Sequence	MEAGPSGAAAGAYLPPLQQVFQAPRRPGIGTVGKPIKLLANYFEVDIPKIDVYHYEV DIKPDKCPRRVNREVVEYMQVHFQKQIFGDRKPVYDGKKNIYTVTALPIGNERNVDFE

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VTIPGEGKDRIFKVSIKWLAIVSWRMLHEALVSGQIPVPLESVQALDVAMRHLASMRY
 TPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQP
 VIEFMCEVLDIRNIDEQPKPLTDSQVRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTR
 RPASHQTFPLQLESGQTVECTVAQYFKQKYNLQLKYPHLPCLQVGQEKEKHTYLPLE
 VCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLMKNASYNLDPYIQEFGIK
 VKDDMTEVTGRVLPAPILQYGGRNRAIATPNQGVWDMRGKQFYNGIEIKVWAIACF
 APQKQCREEVLKNFTDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTY
 SGLQLIIVILPGKTPVYAEVKRVGDTLLGMATQCVQVKNVVKTSPTLSNLCLKINVKL
 GGINNILVPHQRSASFQQPVIFLGADVTHPPAGDGKKPSITAVVGSMDAHPSTRYCAT
 VRVQRPRQEIIEDLSYMBVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIR
 DACIKLEKDYQPGITYIVVQKRHHTRLFCADKNERIGKSGNIPAGTTVDNITHPFEPD
 FYLCSHAGIQGTSRPSHYVVLWDDNRFTADELQILTYQLCHTYVRCTRSVSIPAPAY
 YARLVAFRARYHLVDKEHDSGEGSHISGQSNRDPQALAKAVQVHQDTLRTMYFA

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	AGO1 argonaute 1, RISC catalytic component [Homo sapiens (human)]
Official Symbol	AGO1

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Synonyms	AGO1; argonaute 1, RISC catalytic component; EIF2C1; eukaryotic translation initiation factor 2C, 1; protein argonaute-1; AGO1; argonaute 1; hAgo1; eIF2C 1; eIF-2C 1; argonaute1; putative RNA-binding protein Q99; Golgi Endoplasmic Reticulum protein 95 kDa; Q99; EIF2C; GERP95; DKFZp686M13167;
Gene ID	26523
mRNA Refseq	NM_012199
Protein Refseq	NP_036331
MIM	606228
UniProt ID	Q9UL18

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