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KD-Validated Anti-AGO3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2333

Product Information

Application	WB, FC, ICC
Primary Accession	Q9H9G7
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB3930
Calculated MW	97360
Gene Name	AGO3
Aliases	AGO3; Argonaute RISC Catalytic Component 3; EIF2C3; Eukaryotic Translation Initiation Factor 2C, 3; Protein Argonaute-3; FLJ12765; HAGO3; HAgo3; Eukaryotic Translation Initiation Factor 2C; Argonaute 3, RISC Catalytic Component; EC 3.1.26.N2; Argonaute 3; Argonaute3; EIF-2C 3; EIF2C 3
Immunogen	A synthesized peptide derived from human EIF2C3

Additional Information

Gene ID	192669
Other Names	Protein argonaute-3 {ECO:0000255|HAMAP-Rule:MF_03032}, Argonaute3 {ECO:0000255|HAMAP-Rule:MF_03032}, hAgo3, 3.1.26.n2, Argonaute RISC catalytic component 3, Eukaryotic translation initiation factor 2C 3 {ECO:0000255|HAMAP-Rule:MF_03032}, eIF-2C 3 {ECO:0000255|HAMAP-Rule:MF_03032}, eIF2C 3 {ECO:0000255|HAMAP-Rule:MF_03032}, AGO3, EIF2C3

Protein Information

Name	AGO3
Synonyms	EIF2C3
Function	Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) and represses the translation of mRNAs which are complementary to them. Proposed to be involved in stabilization of small RNA derivates (siRNA) derived from processed RNA polymerase III-transcribed Alu repeats containing a DR2 retinoic acid response element (RARE) in stem cells and in the subsequent siRNA- dependent degradation of a subset of RNA polymerase II-transcribed coding mRNAs by recruiting a mRNA decapping complex involving EDC4. Possesses RNA slicer activity but only on select RNAs bearing 5'- and 3'-flanking sequences to the region of guide-target complementarity (PubMed:29040713).

Cellular Location	Cytoplasm, P-body {ECO:0000255|HAMAP- Rule:MF_03032, ECO:0000269|PubMed:16081698}