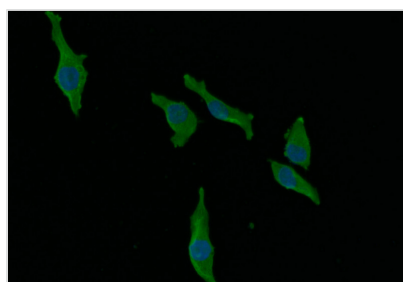




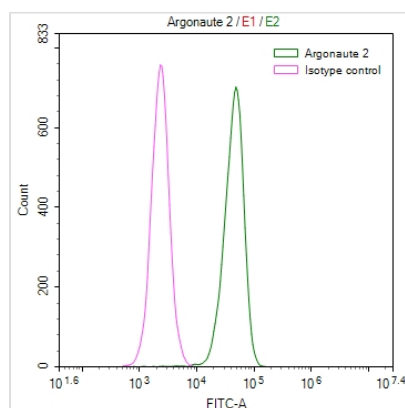
AGO2 Recombinant Monoclonal Antibody

Product Code	CSB-RA965823A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9UKV8
Immunogen	A synthesized peptide derived from Human AGO2
Species Reactivity	Human
Tested Applications	ELISA, IF, FC; Recommended dilution: IF:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Gene Names	AGO2
Clone No.	7C2

Image



Immunofluorescence staining of MCF-7 with CSB-RA965823A0HU at 1:30, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 492-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Overlay Peak curve showing Hela cells stained with CSB-RA965823A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10⁶cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?. Control antibody (green line) was rabbit IgG (1µg/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.



Description

The AGO2 recombinant monoclonal antibody expression generally involves inserting the target gene that encodes the AGO2 antibody into expression vectors and then transferring these vectors into host cells via polyethylenimine-mediated transfection. Cells harboring the expression vectors are cultured to produce and secrete the antibodies. Following affinity chromatography purification, these antibodies' activities are assessed by ELISA, IF, and FC tests. They can recognize human AGO2 protein.

AGO2 is a central player in the RNAi pathway, where it associates with small RNA molecules to guide the silencing of specific target mRNAs. This post-transcriptional gene regulation has critical roles in gene expression, development, antiviral defense, and genome stability.

Usage

For Research Use Only. Not for use in diagnostic or therapeutic procedures.