ARG45305
anti-HUCE1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Polyclonal antibody recognizes HUCE1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	HUCE1
Species	Human
Immunogen	Recombinant protein containing to human HUCE1.
Conjugation	Un-conjugated
Alternate Names	RRP8; Ribosomal RNA Processing 8; KIAA0409; NML; Nucleomethylin; Ribosomal RNA-Processing Protein 8; Cerebral Protein 1; Ribosomal RNA Processing 8, Methyltransferase, Homolog (Yeast); Ribosomal RNA Processing 8, Methyltransferase, Homolog; RRP8 Methyltransferase Homolog (S. Cerevisiae); RRP8 Methyltransferase Homolog; EC 2.1.1.-

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg/10^6 cells
ICC/IF	5 µg/ml
WB	0.25-0.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 51 kDa

Properties

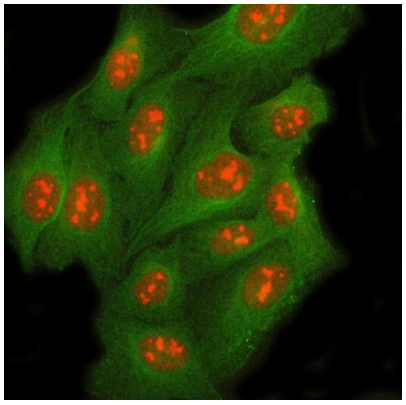
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

	before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

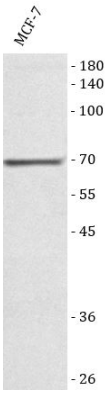
Gene Symbol	RRP8
Gene Full Name	Ribosomal RNA Processing 8
Background	Enables methylated histone binding activity. Involved in several processes, including cellular response to glucose starvation; intrinsic apoptotic signaling pathway by p53 class mediator; and regulation of gene expression. Acts upstream of with a negative effect on regulation of G1 to G0 transition. Located in several cellular components, including cytosol; nuclear lumen; and rDNA heterochromatin. Part of eNoSc complex. [provided by Alliance of Genome Resources, Nov 2024]
Function	Essential component of the eNoSC (energy-dependent nucleolar silencing) complex, a complex that mediates silencing of rDNA in response to intracellular energy status and acts by recruiting histone-modifying enzymes. The eNoSC complex is able to sense the energy status of cell: upon glucose starvation, elevation of NAD+/NADP+ ratio activates SIRT1, leading to histone H3 deacetylation followed by dimethylation of H3 at 'Lys-9' (H3K9me2) by SUV39H1 and the formation of silent chromatin in the rDNA locus. In the complex, RRP8 binds to H3K9me2 and probably acts as a methyltransferase. Its substrates are however unknown. [UniProt]
Calculated Mw	51 kDa
PTM	Phosphoprotein. [UniProt]
Cellular Localization	Nucleus. [UniProt]

Images



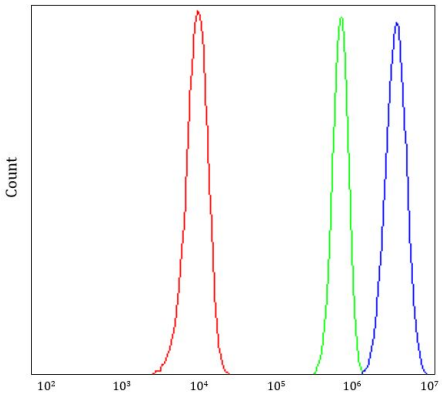
ARG45305 anti-HUCE1 antibody ICC/IF image

Immunofluorescence: U20S stained with ARG45305 anti-HUCE1 antibody at 5 ug/ml dilution.



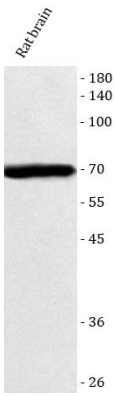
ARG45305 anti-HUCE1 antibody WB image

Western blot: MCF-7 stained with ARG45305 anti-HUCE1 antibody at 0.5 µg/ml dilution.



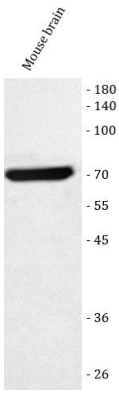
ARG45305 anti-HUCE1 antibody FACS image

Flow Cytometry: Hela stained with ARG45305 anti-HUCE1 antibody at 1 µg/10^6 cells dilution.



ARG45305 anti-HUCE1 antibody WB image

Western blot: Rat brain stained with ARG45305 anti-HUCE1 antibody at 0.5 µg/ml dilution.



ARG45305 anti-HUCE1 antibody WB image

Western blot: Mouse brain stained with ARG45305 anti-HUCE1 antibody at 0.5 µg/ml dilution.