ARG44128
anti-NSUN2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal recognizes NSUN2
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NSUN2
Species	Human
Immunogen	Human NSUN2 recombinant protein (Position: H146-K654).
Conjugation	Un-conjugated
Alternate Names	NSUN2; NOP2/Sun RNA Methyltransferase 2; TRM4; SAKI; RNA Cytosine C(5)-Methyltransferase NSUN2; Misu; Myc-Induced SUN-Domain-Containing Protein; Myc-Induced SUN Domain-Containing Protein; NOL1/NOP2/Sun Domain Family, Member 2; MRNA Cytosine C(5)-Methyltransferase; TRNA Cytosine C(5)-Methyltransferase; Substrate Of AIM1/Aurora Kinase B; NOP2/Sun Domain Family, Member 2; TRNA Methyltransferase 4 Homolog; FLJ20303; MRT5; Mental Retardation, Non-Syndromic, Autosomal Recessive, 5; TRNA Methyltransferase 4 Homolog (S. Cerevisiae); NOP2/Sun RNA Methyltransferase Family Member 2; TRNA (Cytosine(34)-C(5))-Methyltransferase; TRNA (Cytosine-5-)-Methyltransferase NSUN2; NOL1/NOP2/Sun Domain Family Member 2; 5-Methycytoisine Methyltransferase; EC 2.1.1.203; EC 2.1.1.29; EC 2.1.1.-; EC 2.1.1; HTrm4; MISU

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg/10^6 cells
IHC-P	1 - 2 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.

Properties

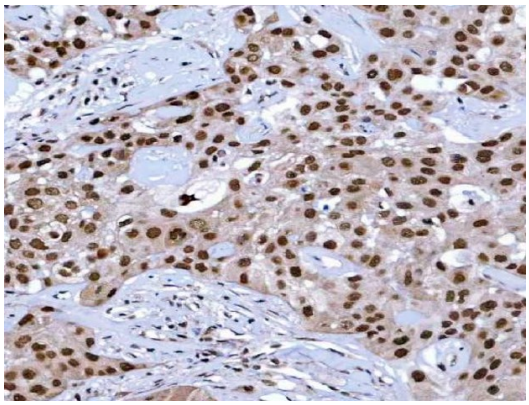
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose

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

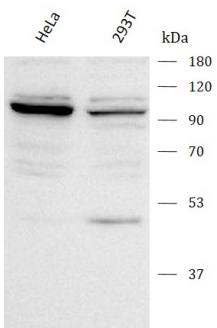
Gene Symbol	NSUN2
Gene Full Name	NOP2/Sun RNA Methyltransferase 2
Background	This gene encodes a methyltransferase that catalyzes the methylation of cytosine to 5-methylcytosine (m5C) at position 34 of intron-containing tRNA(Leu)(CAA) precursors. This modification is necessary to stabilize the anticodon-codon pairing and correctly translate the mRNA. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.
Function	RNA cytosine C5-methyltransferase that methylates cytosine to 5-methylcytosine (m5C) in various RNAs, such as tRNAs, mRNAs and some long non-coding RNAs (lncRNAs).
Calculated Mw	86 kDa
PTM	Acetylation, Isopeptide bond, Phosphoprotein, Ubl conjugation
Cellular Localization	Cytoplasm, Cytoskeleton, Mitochondrion, Nucleus, Secreted

Images



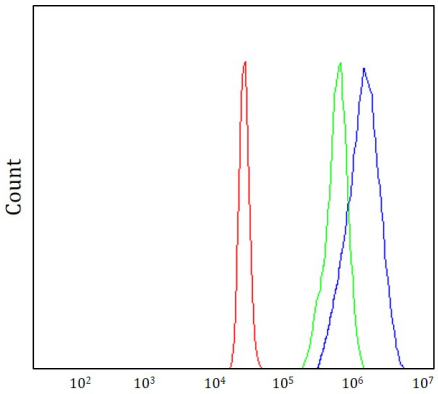
ARG44128 anti-NSUN2 antibody IHC-P image

Immunohistochemistry: Human acinic cell carcinoma stained with ARG44128 anti-NSUN2 antibody at 2 µg/ml dilution.



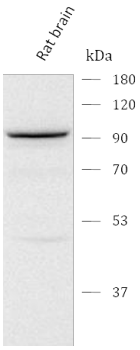
ARG44128 anti-NSUN2 antibody WB image

Western blot: Hela and 293T stained with ARG44128 anti-NSUN2 antibody at 0.5 µg/ml dilution.



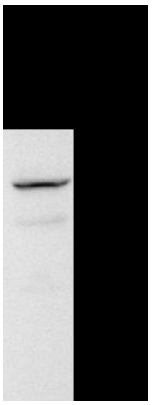
ARG44128 anti-NSUN2 antibody FACS image

Flow Cytometry: 293T stained with ARG44128 anti-NSUN2 antibody at 1 µg/10^6 cells dilution.



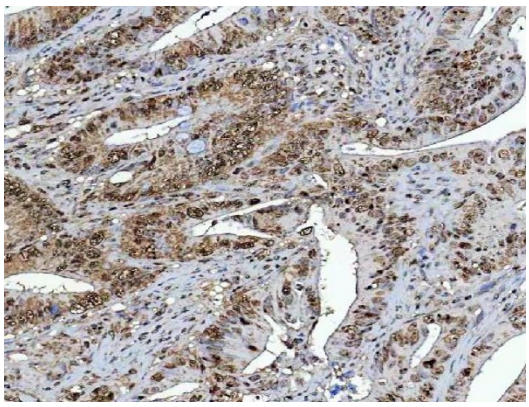
ARG44128 anti-NSUN2 antibody WB image

Western blot: Rat brain stained with ARG44128 anti-NSUN2 antibody at 0.5 µg/ml dilution.



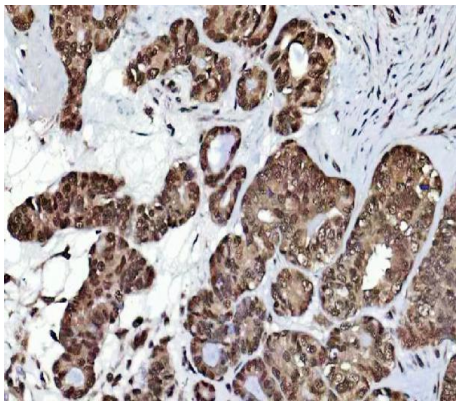
ARG44128 anti-NSUN2 antibody WB image

Western blot: Mouse brain stained with ARG44128 anti-NSUN2 antibody at 0.5 µg/ml dilution.



ARG44128 anti-NSUN2 antibody IHC-P image

Immunohistochemistry: Human colorectal adenocarcinoma stained with ARG44128 anti-NSUN2 antibody at 2 µg/ml dilution.



ARG44128 anti-NSUN2 antibody IHC-P image

Immunohistochemistry: Human ovarian cancer stained with ARG44128 anti-NSUN2 antibody at 2 µg/ml dilution.