

Product Name: KD-Validated PUS7 Mouse Monoclonal Antibody**Catalog #: KVA01699**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 75.0kDa

Antigen Information

Gene Name	PUS7 PUS7; Pseudouridine Synthase 7; Pseudouridylate Synthase 7 (Putative); Pseudouridylate
Alternative Names	Synthase 7 Homolog; FLJ20485; Pseudouridylate Synthase 7 Homolog (S. Cerevisiae); Pseudouridylate Synthase 7; EC 5.4.99.-; KIAA1897; IDDABS
Gene ID	54517.0
SwissProt ID	Q96PZ0
Immunogen	Recombinant protein of human PUS7

Background

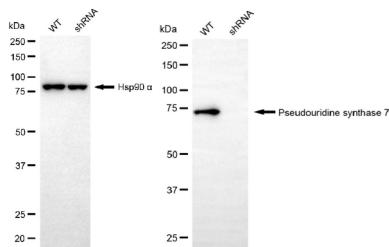
Enables enzyme binding activity and tRNA pseudouridine(13) synthase activity. Involved in several processes, including pseudouridine synthesis; regulation of hematopoietic stem cell differentiation; and regulation of mesoderm development. Is

active in nucleus. Implicated in intellectual developmental disorder with abnormal behavior, microcephaly, and short stature. [provided by Alliance of Genome Resources, Jul 2025]

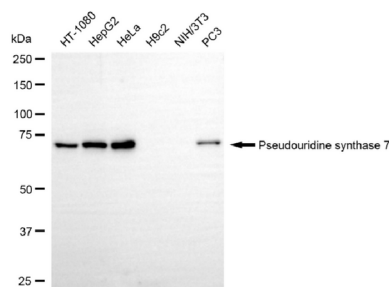
Research Area

Epigenetics and Nuclear Signaling

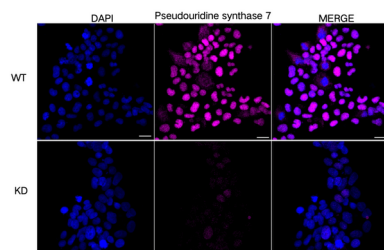
Image Data



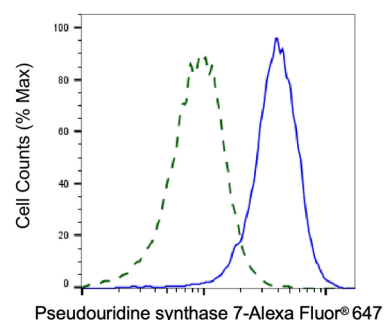
Western blotting analysis using pseudouridine synthase 7 antibody (KVA01699). Pseudouridine synthase 7 expression in wild-type (WT) and pseudouridine synthase 7 (PUS7) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with pseudouridine synthase 7 antibody (KVA01699, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using pseudouridine synthase 7 antibody (KVA01699). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with pseudouridine synthase 7 antibody (KVA01699, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Pseudouridine synthase 7 antibody (KVA01699, 1:1,000), Top panel: wild-type (WT); Bottom panel: Pseudouridine synthase 7 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Pseudouridine synthase 7 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Validation of Pseudouridine synthase 7 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Pseudouridine synthase 7 antibody (KVA01699, 1:2,000) and analyzed using BD flow cytometer.