
Product Name: KD-Validated Arginyltransferase 1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00751**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit 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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 59.1kDa

Antigen Information

Gene Name	ATE1
Alternative Names	ATE1; Arginyltransferase 1; Arginine-TRNA--Protein Transferase 1; Arginyl-TRNA--Protein Transferase 1; R-Transferase 1; EC 2.3.2.8; Arginyl-TRNA-Protein Transferase
Gene ID	11101.0
SwissProt ID	O95260
Immunogen	A synthesized peptide derived from human ATE1

Background

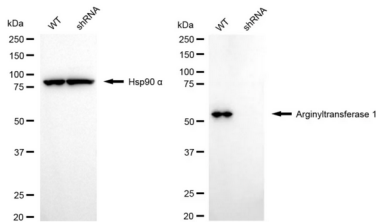
This gene encodes an arginyltransferase, an enzyme that is involved in posttranslational conjugation of arginine to N-terminal aspartate or glutamate residues. Conjugation of arginine to the N-terminal aspartate or glutamate targets proteins for

ubiquitin-dependent degradation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

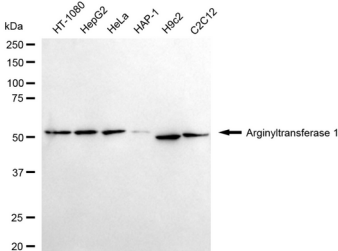
Research Area

Cell Biology

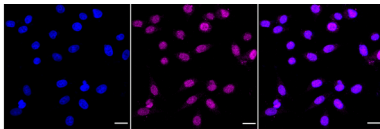
Image Data



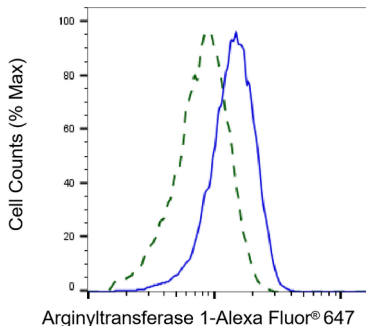
Western blotting analysis using arginyltransferase 1 antibody (KVA00751). Arginyltransferase 1 expression in wild type (WT) and arginyltransferase 1 (ATE1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with arginyltransferase 1 antibody (KVA00751, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



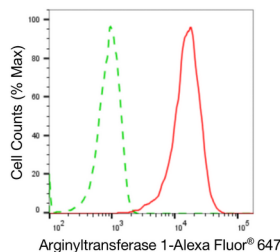
Western blotting analysis using arginyltransferase 1 antibody (KVA00751). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with arginyltransferase 1 antibody (KVA00751, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with arginyltransferase 1 antibody (KVA00751, 1:1,000). Nuclei were stained blue with DAPI; Arginyltransferase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.



Validation of Arginyltransferase 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Arginyltransferase 1 antibody (KVA00751, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Arginyltransferase 1 expression in HepG2 cells using Arginyltransferase 1 antibody (KVA00751, 1:2,000). Green, isotype control; red, Arginyltransferase 1.