10320 Camino Santa Fe, Suite G
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KD-Validated Anti-Arginyltransferase 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1851

Specification

KD-Validated Anti-Arginyltransferase 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	O95260
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 59 kDa, observed, 59 kDa KDa**
Gene Name	**ATE1**
Aliases	**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**
Immunogen	**A synthesized peptide derived from human ATE1**

KD-Validated Anti-Arginyltransferase 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**11101**

Other Names
Arginyl-tRNA--protein transferase 1, Arginyltransferase 1, R-transferase 1, 2.3.2.8, Arginine-tRNA--protein transferase 1, ATE1 {ECO:0000303|PubMed:34893540, ECO:0000312|HGNC:HGNC:782}

KD-Validated Anti-Arginyltransferase 1 Rabbit Monoclonal Antibody - Protein Information

Name ATE1 {ECO:0000303|PubMed:34893540, ECO:0000312|HGNC:HGNC:782}

Function
Involved in the post-translational conjugation of arginine to the N-terminal aspartate or glutamate of a protein (PubMed:34893540). This arginylation is required for degradation of the protein via the ubiquitin pathway (PubMed:34893540). Does not arginylate cysteine residues (By similarity).

Cellular Location
Nucleus. Cytoplasm

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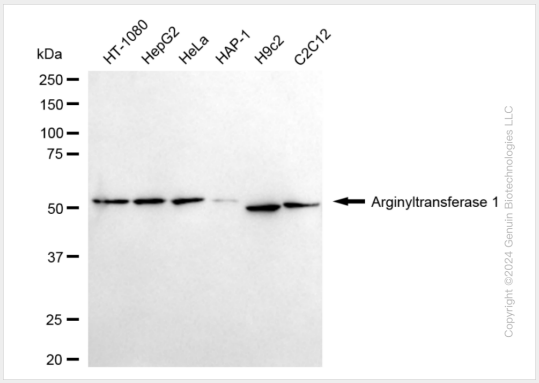
KD-Validated Anti-Arginyltransferase 1 Rabbit Monoclonal Antibody - Protocols

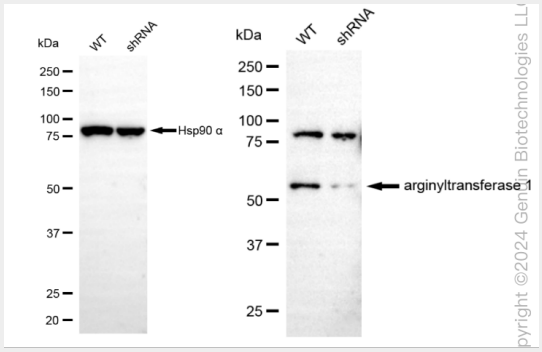
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Arginyltransferase 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-arginyltransferase 1 antibody (Cat#AGI1851). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-arginyltransferase 1 antibody (Cat#AGI1851, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-arginyltransferase 1 antibody (Cat#AGI1851). 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 anti-arginyltransferase 1 antibody (Cat#AGI1851, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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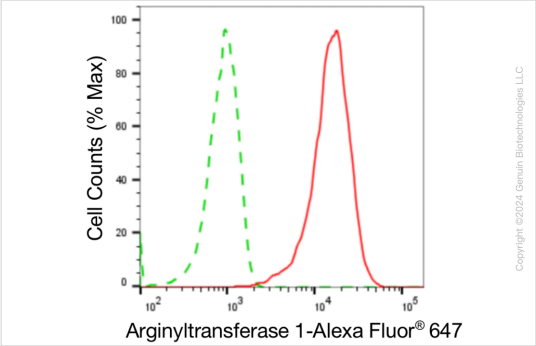
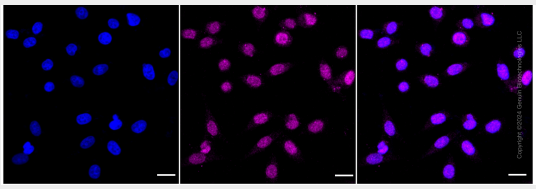


Flow cytometric analysis of Arginyltransferase 1 expression in HepG2 cells using anti-Arginyltransferase 1 antibody (Cat#AGI1851, 1:2,000). Green, isotype control; red,Arginyltransferase 1.



Immunocytochemical staining of HepG2 cells with anti-arginyltransferase 1 antibody (Cat#AGI1851, 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.