

Product Name: KD-Validated AK3 Mouse Monoclonal Antibody**Catalog #: KVA00636**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 25.6kDa

Antigen Information

Gene Name	AK3
Alternative Names	AK3; Adenylate Kinase 3; GTP:AMP Phosphotransferase AK3, Mitochondrial; AKL3L1; AK3L1; AK6; Adenylate Kinase 3 Alpha-Like 1; EC 2.7.4.10; AKL3L; Adenylate Kinase 6, Adenylate Kinase 3 Like 1; GTP:AMP Phosphotransferase, Mitochondrial; Adenylate Kinase 3 Like 1; Adenylate Kinase 6; EC 2.7.4; AK 3; FIX
Gene ID	50808.0
SwissProt ID	Q9UIJ7
Immunogen	Recombinant protein of human AK3

Background

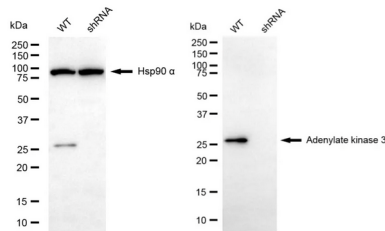
The protein encoded by this gene is a GTP:ATP phosphotransferase that is found in the mitochondrial matrix. Several transcript

variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Dec 2010]

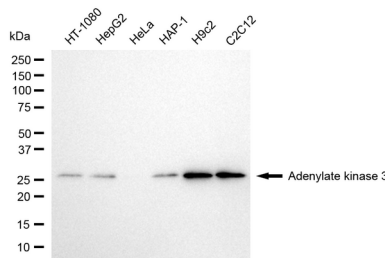
Research Area

Signal Transduction, Metabolism

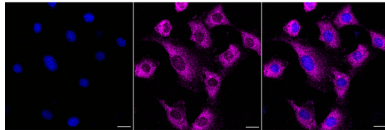
Image Data



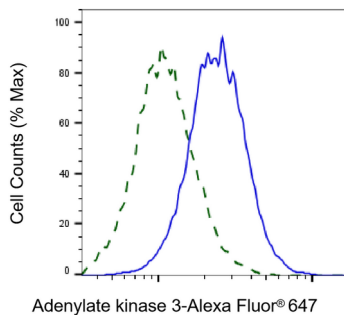
Western blotting analysis using adenylate kinase 3 antibody (KVAb00636). Adenylate kinase 3 expression in wild type (WT) and adenylate kinase 3 (AK3) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with adenylate kinase 3 antibody (KVAb00636, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using adenylate kinase 3 antibody (KVAb00636). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with adenylate kinase 3 antibody (KVAb00636, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Adenylate kinase 3 antibody (KVAb00636, 1:1,000). Nuclei were stained blue with DAPI; Adenylate kinase 3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of Adenylate kinase 3 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Adenylate kinase 3 antibody (KVAb00636, 1:2,000) and analyzed using BD flow cytometer.