

ARG56921 anti-AK3 antibody [SJB3-36]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SJB3-36] recognizes AK3
Tested Reactivity	Hu, Ms
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	SJB3-36
Isotype	IgG1, kappa
Target Name	AK3
Species	Human
Immunogen	Recombinant fragment of Human AK3.
Conjugation	Un-conjugated
Alternate Names	EC 2.7.4.10; AKL3L; Adenylate kinase 3; Adenylate kinase 3 alpha-like 1; FIX; AK6; AK3L1; AKL3L1; GTP:AMP phosphotransferase AK3, mitochondrial; AK 3

Application Instructions

Application table	Application	Dilution
	FACS	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-P	Assay-dependent
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 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. 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.

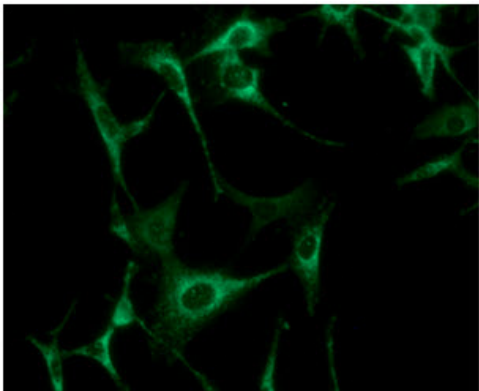
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 50808 Human GeneID: 56248 Mouse Swiss-port # Q9UIJ7 Human Swiss-port # Q9WTP7 Mouse
Gene Symbol	AK3
Gene Full Name	adenylate kinase 3
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]
Function	Involved in maintaining the homeostasis of cellular nucleotides by catalyzing the interconversion of nucleoside phosphates. Has GTP:AMP phosphotransferase and ITP:AMP phosphotransferase activities. [UniProt]
Calculated Mw	26 kDa

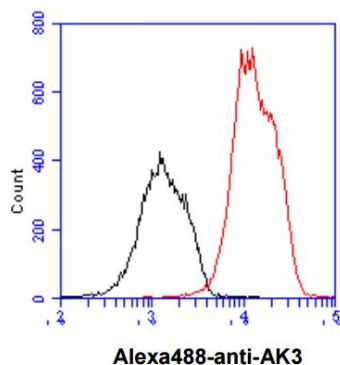
Images



ARG56921 anti-AK3 antibody [SJB3-36] ICC/IF image

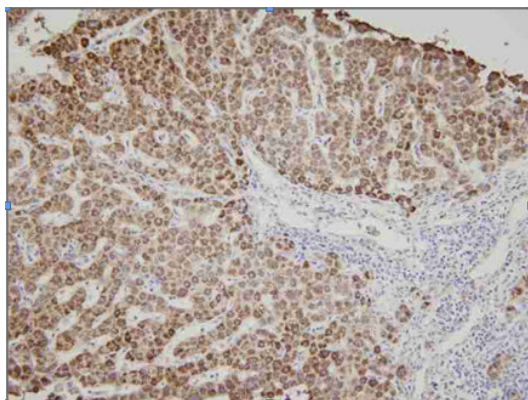
Immunofluorescence: U87MG cell line stained with ARG56921 anti-AK3 antibody [SJB3-36] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



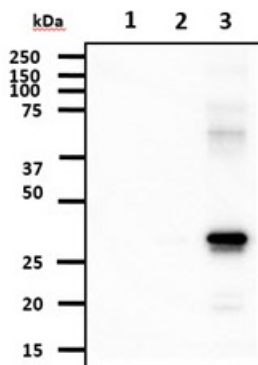
ARG56921 anti-AK3 antibody [SJB3-36] FACS image

Flow Cytometry: Jurkat cell line stained with ARG56921 anti-AK3 antibody [SJB3-36] at 2-5 μg for 1×10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was Mouse IgG (black line).



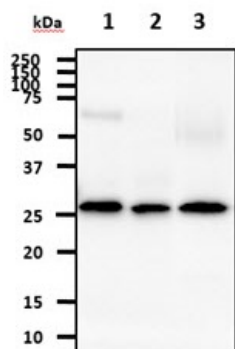
ARG56921 anti-AK3 antibody [SJB3-36] IHC-P image

Immunohistochemistry: Paraffin-embedded sections of Human liver tissue stained with ARG56921 anti-AK3 antibody [SJB3-36] at 1:100 for 2 hours at RT.



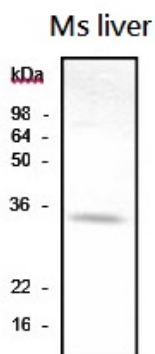
ARG56921 anti-AK3 antibody [SJB3-36] WB image

Western blot: 50 ng of 1) Recombinant Human AK1, 2) Recombinant Human AK2, 3) Recombinant Human AK3 stained with ARG56921 anti-AK3 antibody [SJB3-36] at 1:1000. .



ARG56921 anti-AK3 antibody [SJB3-36] WB image

Western blot: 40 µg of 1) Hep3B cell lysate, 2) 293T cell lysate, 3) Mouse kidney tissue lysate stained with ARG56921 anti-AK3 antibody [SJB3-36] at 1:1000.



ARG56921 anti-AK3 antibody [SJB3-36] WB image

Western blot: 40 µg of Mouse liver tissue lysate stained with ARG56921 anti-AK3 antibody [SJB3-36] at 1:1000.