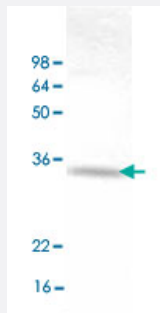


# AK3 monoclonal antibody, clone SJB3-36

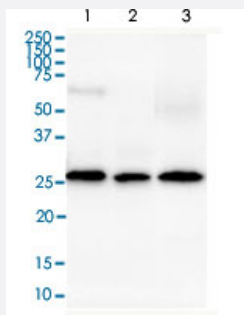
Catalog # MAB1065      Size 100 uL

## Applications



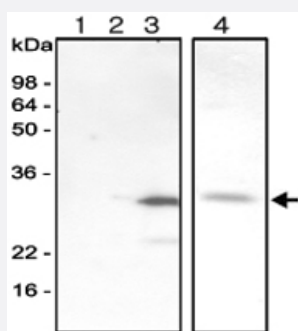
### Western Blot (Tissue lysate)

Western blot analysis of mouse liver tissue lysate.



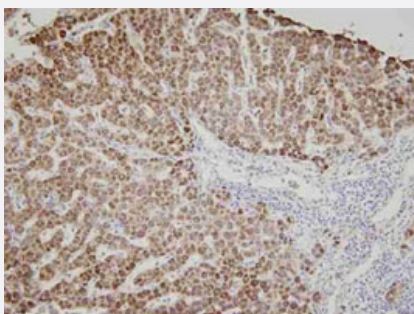
### Western Blot (Cell lysate)

Western blot analysis of Lane 1: Hep3B cell lysate; Lane 2: 293T cell lysate.



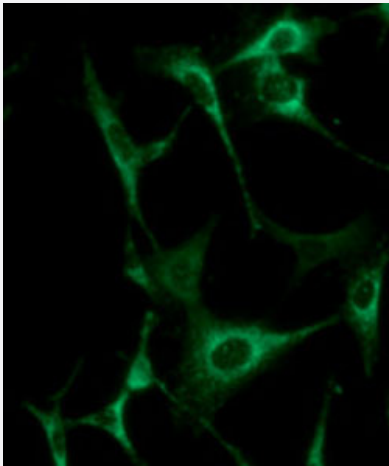
### Western Blot (Recombinant protein)

Western blot analysis of recombinant human AK isozymes. Lane 1 : AK1. Lane 2 : AK2. Lane 3 : AK3. Lane 4 : mouse liver. To probed with AK3 monoclonal antibody , clone SJB3 - 36 (1 : 1000) (Cat # MAB1065) . Proteins were visualized using a goat anti - mouse secondary antibody conjugated to HRP and an ECL detection system.



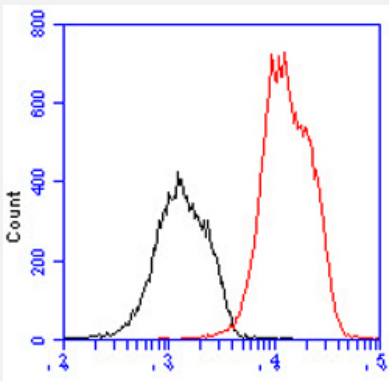
### Immunohistochemistry

Immunohistochemistry of human liver tissue was incubated with AK3 monoclonal antibody, clone SJB3-36 (Cat# MAB1065) for 2 hours at room temperature. Slide was then washed in PBS , and was incubated in avidin biosystem anti - rabbit labeled polymer for 30 min at RT . Enzyme detection was performed with DAB chromogen.



### Immunocytochemistry

Immunocytochemistry analysis of U87 MG cells. The cell was stained with AK3 monoclonal antibody, clone SJB3-36 (Cat# MAB1065) (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue)



### Flow Cytometry

Flow cytometry analysis of Jurkat cell line, staining at 2-5 ug for 1x10<sup>6</sup> cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against full length recombinant AK3.
<b>Immunogen</b>	Recombinant protein corresponding to full length human AK3.
<b>Host</b>	Mouse
<b>Reactivity</b>	Human, Mouse
<b>Specificity</b>	This antibody has the specificity against AK3.
<b>Form</b>	Liquid
<b>Purification</b>	Protein G purification
<b>Isotype</b>	IgG1, kappa

<b>Recommend Usage</b>	ELISA Flow Cytometry Immunocytochemistry Immunofluorescence Immunohistochemistry Western Blot The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
<b>Storage Instruction</b>	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Tissue lysate)

Western blot analysis of mouse liver tissue lysate.

- Western Blot (Cell lysate)

Western blot analysis of Lane 1: Hep3B cell lysate; Lane 2: 293T cell lysate.

- Western Blot (Recombinant protein)

Western blot analysis of recombinant human AK isozymes. Lane 1 : AK1. Lane 2 : AK2. Lane 3 : AK3. Lane 4 : mouse liver. To probed with AK3 monoclonal antibody , clone SJB3 - 36 (1 : 1000) (Cat # MAB1065) . Proteins were visualized using a goat anti - mouse secondary antibody conjugated to HRP and an ECL detection system.

- Immunohistochemistry

Immunohistochemistry of human liver tissue was incubated with AK3 monoclonal antibody, clone SJB3-36 (Cat# MAB1065) for 2 hours at room temperature. Slide was then washed in PBS , and was incubated in avidin biosystem anti - rabbit labeled polymer for 30 min at RT. Enzyme detection was performed with DAB chromogen.

- Immunocytochemistry

Immunocytochemistry analysis of U87 MG cells. The cell was stained with AK3 monoclonal antibody, clone SJB3-36 (Cat# MAB1065) (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue)

- Immunofluorescence

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometry analysis of jurkat cell line, staining at 2-5 ug for  $1 \times 10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

## Gene Info — AK3

Entrez GeneID	<a href="#">50808</a>
GeneBank Accession#	<a href="#">NM_016282</a>
Protein Accession#	<a href="#">NP_057366</a>
Gene Name	AK3
Gene Alias	AK3L1, AK6, AKL3L, AKL3L1, FIX
Gene Description	adenylate kinase 3
Omim ID	<a href="#">609290</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	adenylate kinase 3 like 1
Other Designations	OTTHUMP00000021016 adenylate kinase 3 alpha like adenylate kinase 3 like 1 adenylate kinase 6, adenylate kinase 3 like 1

## Publication Reference

- [Cloning and expression of human adenylate kinase 2 isozymes: differential expression of adenylate kinase 1 and 2 in human muscle tissues.](#)

Lee Y, Kim JW, Lee SM, Kim HJ, Lee KS, Park C, Choe IS.

Journal of Biochemistry 1998 Jan; 123(1):47.

- [Mitochondrial GTP-AMP phosphotransferase. 1. Purification and properties.](#)

Tomasselli AG, Schirmer RH, Noda LH.

European Journal of Biochemistry 1979 Jan; 93(2):257.

## Pathway

- [Pyrimidine metabolism](#)