abcam

Product datasheet

Anti-AK2 antibody [EPR11387(B)] ab157206

敲除 <u>验证</u>重组 RabMAb

<u>1 References</u> 6 图像

概述

产品名称	Anti-AK2 抗体 [EPR11387(B)]	
描述	兔 单 克隆抗体 [EPR11387(B)] to AK2	
宿主	Rabbit	
经测试应 用	适用于: Flow Cyt (Intra), WB, IHC-P 不适用于: ICC/IF or IP	
种属反应性	与反应: Human	
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.	
阳性 对照	WB: HEK-293, HepG2 and HL-60 cell lysates; Fetal kidney, heart and liver lysates; Recombinant human AK2 protein. IHC-P: Human heart and liver tissues. Flow Cyt (intra): HeLa cells.	
常规说明	 This product is a recombinant monoclonal antibody, which offers several advantages including: High batch-to-batch consistency and reproducibility Improved sensitivity and specificity Long-term security of supply Animal-free production For more information <u>see here</u>. Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <u>RabMAb[®] patents</u>. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information. 	

性能	
形式	Liquid
存 放 说明	Shipped at 4°C. Store at -20°C.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯 度	Tissue culture supernatant

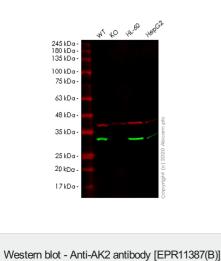
克隆	单 克隆
克隆 编号	EPR11387(B)
同种型	lgG

应用

The Abpromise guarantee Abpromise ™承诺保证使用ab157206于以下的经测试应用

"应用说明"部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明	
Flow Cyt (Intra)		1/10 - 1/100. <u>ab172730</u> - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.	
WB		1/1000 - 1/10000. Predicted molecular weight: 26 kDa.	
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.	
应 用 说 明	Is unsuitable for ICC/IF or IP.		
靶 标			
功能	Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. This small ubiquitous enzyme involved in energy metabolism and nucleotide synthesis that is essential for maintenance and cell growth. Plays a key role in hematopoiesis.		
组织 特异性	Present in most tissues. Present at high level in heart, liver and kidney, and at low level in brain, skeletal muscle and skin. Present in thrombocytes but not in erythrocytes, which lack mitochondria. Present in all nucleated cell populations from blood, while AK1 is mostly absent. In spleen and lymph nodes, mononuclear cells lack AK1, whereas AK2 is readily detectable. These results indicate that leukocytes may be susceptible to defects caused by the lack of AK2, as they do not express AK1 in sufficient amounts to compensate for the AK2 functional deficits (at protein level).		
疾病相关	Defects in AK2 are the cause of reticular dysgenesis (RDYS) [MIM:267500]; also known as aleukocytosis. RDYS is the most severe form of inborn severe combined immunodeficiencies (SCID) and is characterized by absence of granulocytes and almost complete deficiency of lymphocytes in peripheral blood, hypoplasia of the thymus and secondary lymphoid organs, and lack of innate and adaptive humoral and cellular immune functions, leading to fatal septicemia within days after birth. In bone marrow of individuals with reticular dysgenesis, myeloid differentiation is blocked at the promyelocytic stage, whereas erythro- and megakaryocytic maturation is generally normal.In addition, affected newborns have bilateral sensorineural deafness. Defects may be due to its absence in leukocytes and inner ear, in which its absence can not be compensated by AK1.		
序列相似性	Belongs to the adenylate kina	se family. AK2 subfamily.	
细 胞定位	Mitochondrion intermembrane space.		



(ab157206)

All lanes : Anti-AK2 antibody [EPR11387(B)] (ab157206) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate Lane 2 : AK2 knockout HEK293T cell lysate Lane 3 : HL-60 cell lysate Lane 4 : HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

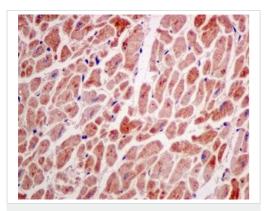
Secondary

All lanes : Goat anti-Rabbit lgG H&L (IRDye® 800CW) preadsorbed (<u>ab216773</u>) at 1/10000 dilution

Predicted band size: 26 kDa Observed band size: 30 kDa

Lanes 1-4: Merged signal (red and green). Green - ab157206 observed at 30 kDa. Red - loading control <u>ab8245</u> observed at 36 kDa.

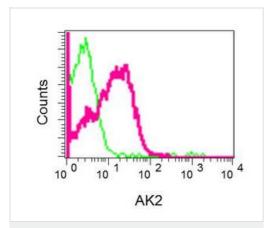
ab157206 Anti-AK2 antibody [EPR11387(B)] was shown to specifically react with AK2 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line <u>ab266539</u> (knockout cell lysate <u>ab257825</u>) was used. Wild-type and AK2 knockout samples were subjected to SDS-PAGE. ab157206 and Anti-GAPDH antibody [6C5] - Loading Control (<u>ab8245</u>) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preadsorbed (<u>ab216773</u>) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preadsorbed (<u>ab216776</u>) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



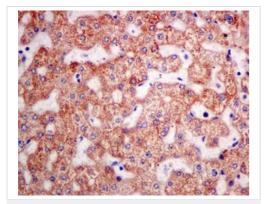
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human heart tissue, labeling AK2 using ab157206 at a 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



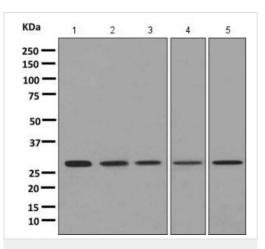


Flow Cytometry (Intracellular) - Anti-AK2 antibody [EPR11387(B)] (ab157206) Intracellular Flow Cytometry analysis of permeabilized HeLa cells labeling AK2 (red), using ab157206 at a 1/10 dilution, and negative control cells probed with a Rabbit IgG (green)



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human liver tissue, labeling AK2 using ab157206 at a 1/50 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-AK2 antibody [EPR11387(B)] (ab157206)



Western blot - Anti-AK2 antibody [EPR11387(B)] (ab157206) All lanes : Anti-AK2 antibody [EPR11387(B)] (ab157206) at 1/1000 dilution

- Lane 1 : HepG2 lysate Lane 2 : fetal kidney lysate
- Lane 3 : fetal heart lysate
- Lane 4 : HeLa lysate
- Lane 5 : fetal liver lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 26 kDa



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