

Product Data Sheet

Anti-AK4 Antibody

Catalog #	Source	Reactivity	Applications
CQA1113	Rabbit	H, M	WB, IH, IF/IC
Description	Rabbit polyclonal antibody to AK4		
Immunogen	Recombinant full length protein of human AK4		
Purification	The antibody was purified by immunogen affinity chromatography.		
Specificity	Recognizes endogenous levels of AK4 protein.		
Clonality	Polyclonal		
Conjugation			
Form	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		
Dilution	WB (1/500 - 1/2000), IH (1/50 - 1/200), IF/IC (1/50 - 1/200)		
Gene Symbol	AK4		
Alternative Names	AK3; AK3L1; Adenylate kinase 4 mitochondrial; AK 4; Adenylate kinase 3-like; GTP:AMP phosphotransferase AK4		
Entrez Gene	100507855, 205 (Human); 11639 (Mouse)		
SwissProt	P27144 (Human); Q9WUR9 (Mouse)		
Storage/Stability	Shipped at 4° C. Upon delivery aliquot and store at -20° C for one year. Avoid freeze/thaw cycles.		

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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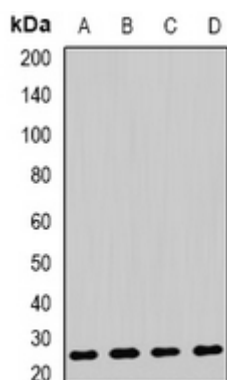
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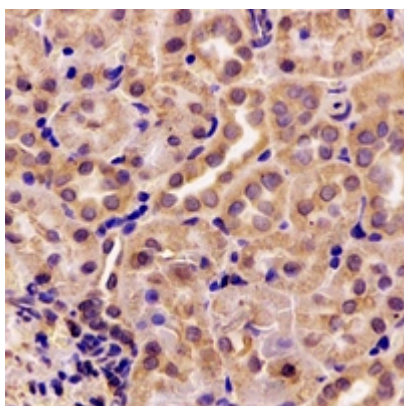
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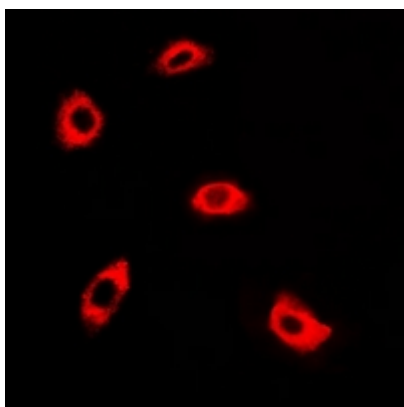
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Western blot analysis of AK4 expression in HepG2 (A), Raji (B), mouse liver (C), mouse kidney (D) whole cell lysates.
(Predicted band size: 25 kD; Observed band size: 27 kD)



Immunohistochemical analysis of AK4 staining in rat kidney formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of AK4 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ° C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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