For research purposes only, not for human use

Product Data Sheet

Anti-Kir6.2 (Phospho-T224) Antibody

Catalog #	Source	Reactivity	Applications
CPA5755	Rabbit	H, M, R, B, P, Rb	WB, IH, IF/IC

Description	Rabbit polyclonal antibody to Kir6.2 (Phospho-T224)
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding T224 of human Kir6.2 protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of Kir6.2 protein only when phosphorylated at T224.
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 - 1/1000), IH (1/50 - 1/100), IF/IC (1/100 - 1/500)
Gene Symbol	KCNJ11
Alternative Names	ATP-sensitive inward rectifier potassium channel 11; IKATP; Inward rectifier K(+) channel Kir6.2; Potassium channel inwardly rectifying subfamily J member 11
Entrez Gene	3767 (Human); 16514 (Mouse); 83535 (Rat)
SwissProt	Q14654 (Human); Q61743 (Mouse); P70673 (Rat)
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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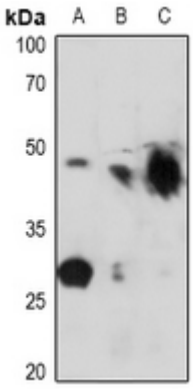
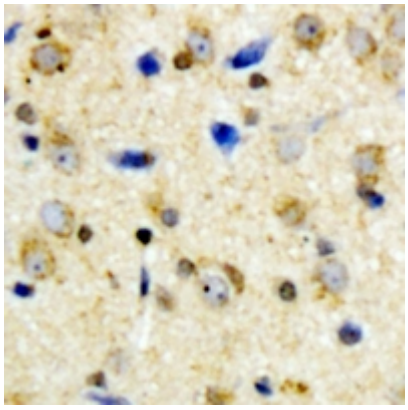
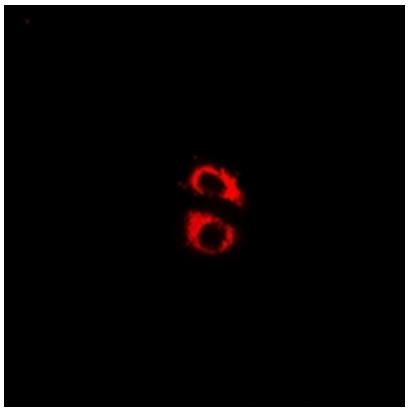


Western blot analysis of Kir6.2 (Phospho-T224) expression in MCF7 (A), mouse liver (B), rat liver (C) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 44 kD)



Immunohistochemical analysis of Kir6.2 (Phospho-T224) staining in human brain 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 Kir6.2 (Phospho-T224) staining in HuvEc 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 hidified chamber. Cells were washed with PBST and incubated with Alexa Fluor 647-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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