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Anti-GAK Antibody

Rabbit polyclonal antibody to GAK
Catalog # AP60289

Product Information

Application	WB, IF/IC, IHC
Primary Accession	O14976
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	143191

Additional Information

Gene ID	2580
Other Names	Cyclin-G-associated kinase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human GAK. The exact sequence is proprietary.
Dilution	WB~~WB (1/200 - 1/500), IHC (1/50 - 1/100), IF/IC (1/50 - 1/100) IF/IC~~N/A IHC~~WB (1/200 - 1/500), IHC (1/50 - 1/100), IF/IC (1/50 - 1/100)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

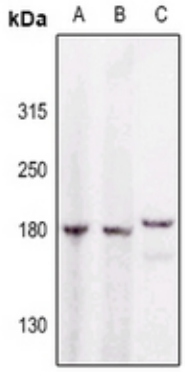
Name	GAK (HGNC:4113)
Function	Associates with cyclin G and CDK5. Seems to act as an auxilin homolog that is involved in the uncoating of clathrin-coated vesicles by Hsc70 in non-neuronal cells. Expression oscillates slightly during the cell cycle, peaking at G1 (PubMed:10625686). May play a role in clathrin-mediated endocytosis and intracellular trafficking, and in the dynamics of clathrin assembly/disassembly (PubMed:18489706).
Cellular Location	Cytoplasm, perinuclear region. Golgi apparatus, trans-Golgi network. Cell junction, focal adhesion. Cytoplasmic vesicle, clathrin-coated vesicle. Note=Localizes to the perinuclear area and to the trans-Golgi network. Also seen on the plasma membrane, probably at focal adhesions. Recruitment to clathrin- coated vesicles depends on temporal variations in phosphoinositide composition of clathrin-coated vesicles (PubMed:31962345)

Tissue Location	Ubiquitous. Highest in testis.

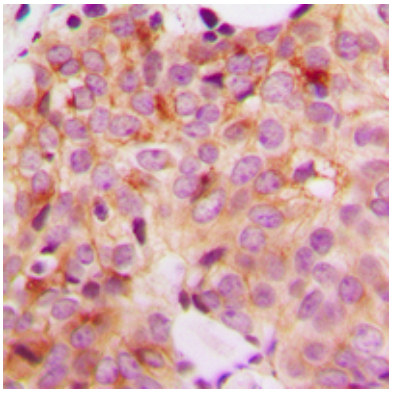
Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human GAK. The exact sequence is proprietary.

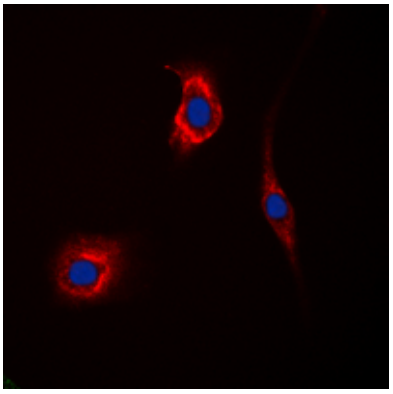
Images



Western blot analysis of GAK expression in PC3 (A), SGC7901 (B), DLD (C) whole cell lysates.



Immunohistochemical analysis of GAK staining in human breast cancer 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 GAK staining in Hela 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 a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.