

**Anti-GAK Antibody**  
**Rabbit polyclonal antibody to GAK**  
**Catalog # AP60289****Specification**

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**Anti-GAK Antibody - Product Information**

Application	WB, IF/IC, IHC
Primary Accession	<a href="#">O14976</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	143191

**Anti-GAK Antibody - Additional Information****Gene ID** 2580**Other Names**

Cyclin-G-associated kinase

**Target/Specificity**

Recognizes endogenous levels of GAK protein.

**Dilution**

WB~~WB (1/200 - 1/500), IH (1/50 - 1/100), IF/IC (1/50 - 1/100)

IF/IC~~N/A

IHC~~1:100~500

**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

**Anti-GAK Antibody - 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:<a href="http://www.uniprot.org/citations/10625686" target="\_blank">10625686</a>). May play a role in clathrin-mediated endocytosis and intracellular trafficking, and in the dynamics of clathrin assembly/disassembly (PubMed:<a href="http://www.uniprot.org/citations/18489706" target="\_blank">18489706</a>).

**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**

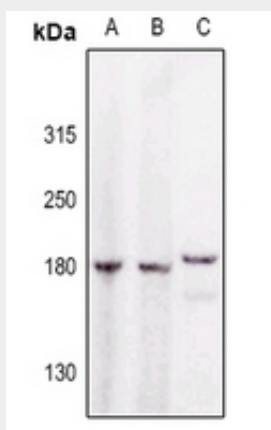
Ubiquitous. Highest in testis.

#### **Anti-GAK Antibody - Protocols**

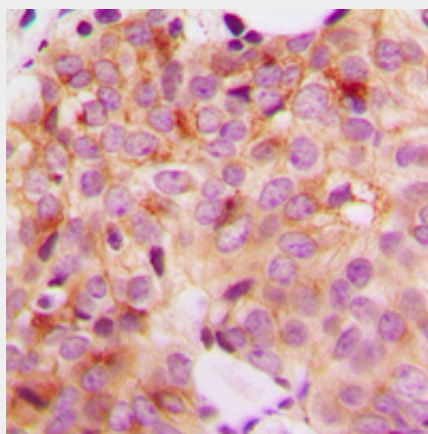
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

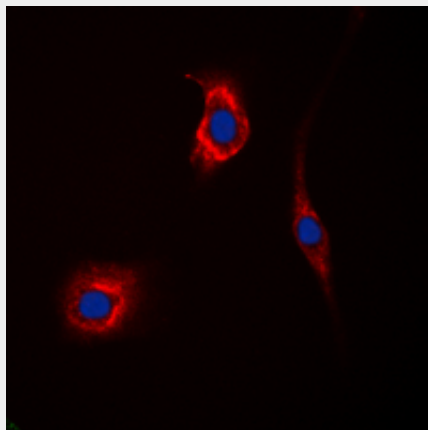
#### **Anti-GAK Antibody - Images**



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 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. DAPI was used to stain the cell nuclei (blue).

#### **Anti-GAK Antibody - Background**

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