

Anti-GAK antibody, mouse monoclonal (9-10)

Product code	71-203
Size	100 µl
Storage	-20°C
Concentration	N/A
Buffer	PBS ⁻ with 50% glycerol
Purity	Cell culture supernatant
Immunogen	Purified recombinant rat GAK (kinase domain, 1-430)
Isotype	Mouse IgG
Reactivity	Human and rat. Not tested with other species.
Special notes	N/A
Application	1. Western blotting (1/ 500) 2. Immunofluorescent staining (1/50) 3. Immunohistochemistry (1/50) Not tested for other applications
Background	GAK (Cyclin-G-associated kinase) a serine/threonine kinase that functions in the uncoating of clathrin-coated vesicles by Hsc70 in non-neuronal cells. Its non-kinase domain is homologous to auxilin that is mainly expressed in neuronal cells. Human GAK consists of 1,311 amino acids with molecular mass of 143 kDa.
Data Link	UniProtKB O14976 (Human) Entrez Gene 2580 (Human)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 71-203 Anti-GAK antibody, mouse monoclonal (9-10)

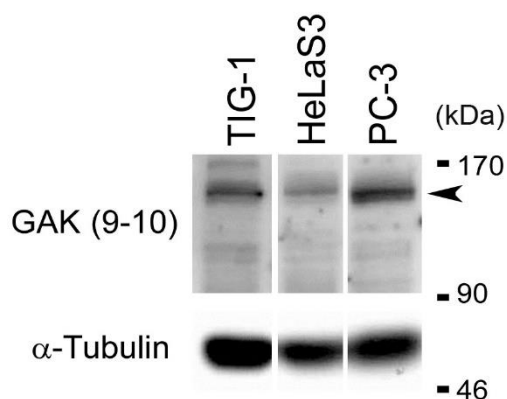


Fig.1 Western blot analysis of endogenous GAK in whole cell extracts of TIG-1, HeLa S3 and PC-3 cells with anti-GAK monoclonal antibody (9-10)

The anti-GAK antibody was used at 1/500 dilution.

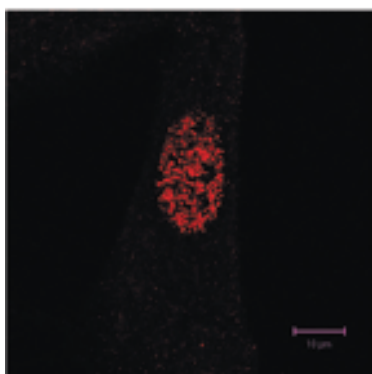


Fig.2 Immunofluorescence staining of GAK in TIG-1 cells with anti-GAK antibody (9-10).

The antibody was used at 1/50 dilution. As the second antibody, Texas-Red conjugated sheep anti-mouse IgG was used.

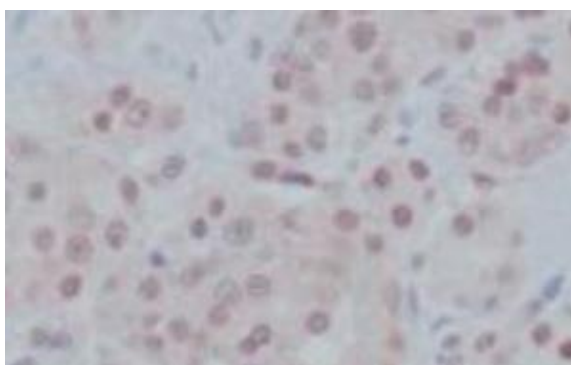


Fig.3 Immunohistochemical staining of human prostate cancer tissues with anti-GAK antibody (9-10), showing nuclear accumulation of GAK in cancer cells.

The anti-GAK antibody was used at 1/50 dilution.

References: Usage of this antibody has been described in the following publication.

1. Sato J. et al. **GAK**, a regulator of clathrin-mediated membrane trafficking, localizes not only in the cytoplasm but also in the nucleus. [Genes Cells](#). 2009 May;14(5):627-41. doi: 10.1111/j.1365-2443.2009.01296.x. **WB, IF**
2. Shimizu H et al. GAK, a regulator of clathrin-mediated membrane traffic, also controls centrosome integrity and chromosome congression. [J Cell Sci](#). 2009 Sep 1;122(Pt 17):3145-52. doi: 10.1242/jcs.052795. **WB**
3. Sakurai MA et al. Gefitinib and luteolin cause growth arrest of human prostate cancer PC-3 cells via inhibition of cyclin G-associated kinase and induction of miR-630. [PLoS One](#). 2014 Jun 27;9(6):e100124. doi: 10.1371/journal.pone.0100124. **WB**