

## **Human GAK Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 706306 Catalog Number: MAB6918

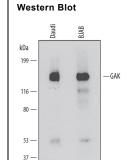
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human GAK in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 706306
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human GAK Phe258-Asp443 Accession # 014976
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

## DATA



Detection of Human GAK by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line and BJAB human Burkitt's lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human GAK Monoclonal Antibody (Catalog # MAB6918) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for GAK at approximately 144 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE		
Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  12 months from date of receipt, -20 to -70 °C as supplied.  1 month, 2 to 8 °C under sterile conditions after reconstitution.	
	<ul> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>	

## **BACKGROUND**

Cyclin G-associated kinase (GAK), also known as Auxilin 2, is an approximately 140 kDa widely expressed protein that associates with CDK5. GAK promotes microtubule growth during mitotic spindle assembly and is required for centrosome maturation, chromosome congression, and mitotic progression. It also regulates the assembly and intracellular trafficking of clathrin-coated vesicles. GAK contains a Ser/Thr protein kinase domain (aa 40-314), a phosphatase tensin/auxilin domain (aa 399-566), a PTEN C2 domain (aa 570-708), and a J domain (aa 1247-1311). Within aa 258-443, human GAK shares 88% aa sequence identity with mouse and rat GAK.

Rev. 2/7/2018 Page 1 of 1

