

Human AAK1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 702425 Catalog Number: MAB6886

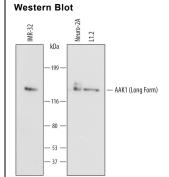
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human AAK1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 702425
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human AAK1 Ser704-lle822 Accession # Q2M2I8
Formulation	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 and Mouse AAK1 by Western Blot. Western blot shows lysates of IMR-32 human neuroblastoma cell line, Neuro-2A mouse neuroblastoma cell line, and L1.2 mouse pro-B cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human AAK1 Monoclonal Antibody (Catalog # MAB6886) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for AAK1 (Long Form) at approximately 140 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

ShippingThe 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

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

AP2-associated protein kinase 1 (AAK1) is a 100 kDa intracellular kinase that binds and phosphorylates NUMB and the m2 subunit of AP2. NUMB and AP2 are adaptor proteins which are involved in the assembly and sorting of clathrin coated pits during receptor-mediated endocytosis. AAK1 contains one catalytic domain (aa 46-315) and a C-terminal clathrin-binding region. Alternate splicing of human AAK1 generates a 145 kDa long isoform that contains an additional clathrin-binding domain. Within aa 704-822, human AAK1 shares 95% aa sequence identity with mouse and rat AAK1.

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