

DESCRIPTION

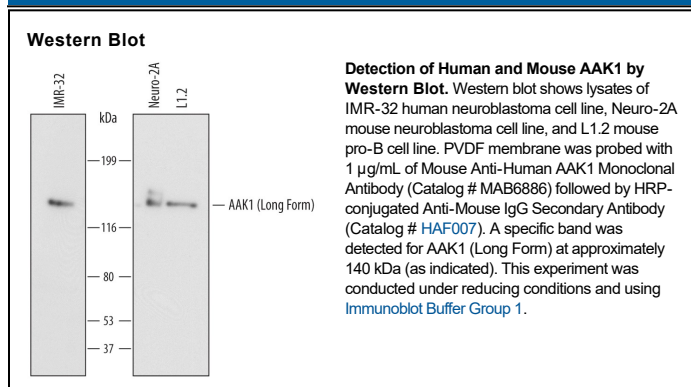
Species Reactivity	Human
Specificity	Detects human AAK1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 702425
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human AAK1 Ser704-Ile822 Accession # Q2M2I8
Formulation	Lyophilized 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



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. <ul style="list-style-type: none"> 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.