

Human DAPK3/ZIPK Antibody

Monoclonal Mouse IgG_{2B} Clone # 729830 Catalog Number: MAB5290

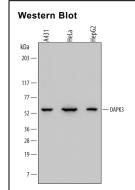
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human DAPK3/ZIPK in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) DAPK1, rhDAPK2, rhDRA or rhDRAK2 is observed.		
Source	Monoclonal Mouse IgG _{2B} Clone # 729830		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human DAPK3/ZIPK Arg347-Arg454 Accession # O43293		
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	0.5 μg/mL	See Below

DATA



Detection of Human DAPK3/ZIPK by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line, HeLa human cervical epithelial carcinoma cell line, and HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 0.5 μg/mL of Mouse Anti-Human DAPK3/ZIPK Monoclonal Antibody (Catalog # MAB5290) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # MAB5290)

conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for DAPK3/ZIPK at approximately 55 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.

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

DAPK3 (Death-associated protein kinase 3; also ZIP kinase and DLK) is a 52 kDa member of the CAMK Ser/Thr kinase family, protein kinase superfamily of enzymes. In general, mouse DAPK3 is nuclear while human DAPK3 is cytosolic. DAPK3 is found in smooth muscle where it phosphorylates the regulatory light chain of myosin and stabilizes thick filament formation. Human DAPK3 is 454 amino acids (aa) in length. It contains one protein kinase domain (aa 134-275) and a C-terminal Leu-zipper motif (aa 427-441) that mediates homo- and hetero-dimerization. There is one 35 kDa alternate splice form that shows a 10 aa substitution for aa 313-454. This form has both a nuclear and cytosolic localization. Over aa 347-454, human DAPK3 is 65% aa identical to mouse DAPK3.

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