

Human/Mouse/Rat DRAK2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 685228 Catalog Number: MAB6640

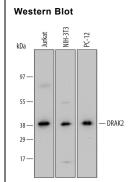
DESCRIPTION			
Species Reactivity	ty Human/Mouse/Rat		
Specificity	Detects human, mouse, and rat DRAK2 in Western blots. In Western blots, less than 10% cross-reactivity with recombinant human (rh) DRAK1, rhDAPK1, rhDAPK2, or rhDAPK3 is observed.		
Source	Monoclonal Mouse IgG _{2B} Clone # 685228		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human DRAK2 Ala87-Glu285 (predicted) Accession # O94768		
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, Mouse, and Rat DRAK2 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, NIH-3T3 mouse embryonic fibroblast cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF Membrane was probed with 1 µg/mL of Human DRAK2 Monoclonal Antibody (Catalog # MAB6640) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for DRAK2 at approximately 42 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

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

DRAK2 (death-associated protein related kinase-2), also called STK17B (Ser/Thr kinase 17B) is a 45 kDa member of the DAPK (death-associated protein kinase) family. It is expressed mainly in lymphoid organs by mature T cells and B cells. It is autophosphorylated on Ser12 after TCR stimulation and negatively regulates TCR signaling. Ultraviolet light causes phosphorylation on Ser350 and translocation to the nucleus to stimulate apoptosis. Within the region used as an immunogen, human DRAK2 shares 95% amino acid (aa) identity with mouse and rat DRAK2 while mouse and rat DRAK2 share 99.5% aa identity.

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