

DESCRIPTION

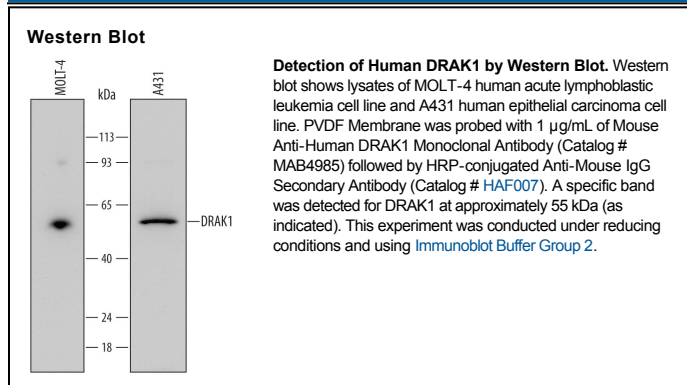
Species Reactivity	Human
Specificity	Detects human DRAK1 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) DRAK2, rhDAPK1, rhDAPK2, or rhDAPK3 is observed. In Western blots, no cross-reactivity with rhDRAK2 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 684324
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DRAK1 Ala115-Glu313 Accession # Q9UEE5
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 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

DRAK1 (DAP kinase-related apoptosis-inducing protein kinase 1; also STK17A) is a 55 kDa member of the DAP kinase subfamily, CAMK Ser/Thr protein kinase family of enzymes. It is expressed in osteoclasts, resides in the nucleus, and initiates apoptosis. Human DRAK1 is 414 amino acids (aa) in length. It contains an N-terminal polyPro segment (aa 33-37) followed by a Ser/Thr kinase domain (aa 64-321) with a catalytic loop (aa 184-193). Apoptosis apparently requires an intact kinase domain. No rodent DRAK1 has been reported. Over aa 115-313, human DRAK1 shares 95% aa identity with canine DRAK1, and 65% aa identity with human DRAK2.