

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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

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