

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | 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.                                                                                         |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 685228                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human DRAK2<br>Ala87-Glu285 (predicted)<br>Accession # O94768                                                                                                                                                                           |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

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.

#### PRODUCT SPECIFIC NOTICES

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