

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | Detects human, mouse, and rat MEK1 and MEK2 dually phosphorylated at S218/S222 and S222/S226, respectively.                                                                                                                                                                 |
| <b>Source</b>             | Monoclonal Rabbit IgG Clone # 1020E                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Protein A or G purified from cell culture supernatant                                                                                                                                                                                                                       |
| <b>Immunogen</b>          | Phosphopeptide containing the human, mouse, and rat MEK1 S218/S222 site                                                                                                                                                                                                     |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 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

MEK1 and MEK2, also known as MAP2K1 and MAP2K2, are activated in response to mitogenic stimuli. Activation occurs through dual phosphorylation at S218/S222 of MEK1 and S222/S226 of MEK2 by several upstream MAP3Ks, including the Raf kinases. Both MEK1 and MEK2 are dual-specificity protein kinases, phosphorylating and activating ERK1 and ERK2 at Thr and Tyr positions.

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