

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human A-Raf in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) B-Raf, rhRaf-1 (aa 1-648), rhRaf-1 (aa 189-353), or rhKSR1 is observed. In Western blots, no cross-reactivity with recombinant huma               |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 684128                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human A-Raf<br>Asn150-Lys314<br>Accession # P10398                                                                                                                                                                                      |
| <b>Conjugate</b>          | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 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

The Raf serine/threonine kinases are effectors of Ras that function as MAP3Ks in the ERK phosphorylation cascade. Mammals express three Raf proteins: A-Raf, B-Raf, and Raf-1, also known as C-Raf. Human A-Raf is a 70 kDa protein that shares three regions with B-Raf and Raf-1: aa 14-153 which contains a Ras-binding domain, a Cys-rich domain, and a lipid-binding domain; aa 209-223; and aa 308-573 which contains the Ser/Thr protein kinase domain and a second lipid-binding domain. A-Raf is activated by phosphorylation at Ser 257, 262, and 264. It then regulates multiple processes including endocytic trafficking, glycolysis, cell cycle progression, and apoptosis. Within aa 150-314, human A-Raf shares 87% aa sequence identity with mouse and rat A-Raf.

## PRODUCT SPECIFIC NOTICES

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