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Mouse Anti-Human Raf-1 Monoclonal Antibody Datasheet

Product Name: mAb anti-human Raf-1

Clone No.: 540

Catalogue No.: MO-M40091G

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human Raf-1

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: Human Raf-1

Immunogen: Purified recombinant Raf-1 (mw:75kDa)

Fusion Myeloma: Sp2/0-Ag14

Specificity: Reactive to Raf-1 N-terminal (1-240 a. a.)

Species Reactivity: Human, others not tested

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.2

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20°C

Research Area: Cell differentiation, oncology

Background: Raf-1 is a serine/threonine protein kinase in the mitogen-activated protein kinase (MAPK) pathway. When extracellular signal binds to the G-protein coupled membrane receptor, Ras binds to GTP and phosphorylates Raf. The activated Raf phosphorylates MAPK kinase, which consecutively, activates MAPK. MAPK triggers the transcription of a wide spectrum of genes involved with cell growth and differentiation by activating transcription factors such as C-myc and CREB. MAPK also regulates translation by phosphorylating RSK, a ribosomal protein 6S kinase.

Gene for Raf-1 is located on chromosome 3. The mutations on Raf-1 may relate to some rare but severe diseases such as Noonan syndrome and Leopard syndrome.

Applications: **Western Blot:** The antibody, when used at 1µg/mL, will allow visualization of 0.2µg/lane of recombinant human Raf-1 (75 kDa).

References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

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