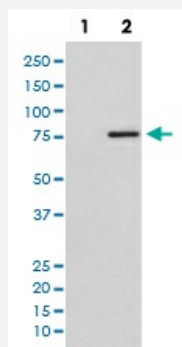


# RAF1 (phospho S621) monoclonal antibody, clone IOF-18

Catalog # MAB20562      Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western Blot analysis of (1) HeLa cell lysate treated with LP, (2) HeLa cell lysate using RAF1 (phospho S621) monoclonal antibody, clone IOF-18.

## Specification

|                            |                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Rabbit monoclonal antibody raised against synthetic phosphopeptide of human RAF1.                                                                                                     |
| <b>Immunogen</b>           | A synthetic phosphopeptide corresponding to residues surrounding S621 of human RAF1.                                                                                                  |
| <b>Host</b>                | Rabbit                                                                                                                                                                                |
| <b>Reactivity</b>          | Human                                                                                                                                                                                 |
| <b>Form</b>                | Liquid                                                                                                                                                                                |
| <b>Purification</b>        | Affinity purification                                                                                                                                                                 |
| <b>Isotype</b>             | IgG                                                                                                                                                                                   |
| <b>Recommend Usage</b>     | Western Blot (1:500-1:2000)<br>The optimal working dilution should be determined by the end user.                                                                                     |
| <b>Storage Buffer</b>      | In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.4-0.5 mg/mL BSA, 0.02% sodium azide).                                                                                                    |
| <b>Storage Instruction</b> | Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing. |

## Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western Blot analysis of (1) HeLa cell lysate treated with LP, (2) HeLa cell lysate using RAF1 (phospho S621) monoclonal antibody, clone IOF-18.

## Gene Info — RAF1

Entrez GeneID [5894](#)

Protein Accession# [P04049](#)

Gene Name RAF1

Gene Alias CRAF, NS5, Raf-1, c-Raf

Gene Description v-raf-1 murine leukemia viral oncogene homolog 1

Omim ID [164760](#) [611553](#) [611554](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene is the cellular homolog of viral raf gene (v-raf). The encoded protein is a MAP kinase kinase kinase (MAP3K), which functions downstream of the Ras family of membrane associated GTPases to which it binds directly. Once activated, the cellular RAF1 protein can phosphorylate to activate the dual specificity protein kinases MEK1 and MEK2, which in turn phosphorylate to activate the serine/threonine specific protein kinases, ERK1 and ERK2. Activated ERKs are pleiotropic effectors of cell physiology and play an important role in the control of gene expression involved in the cell division cycle, apoptosis, cell differentiation and cell migration. Mutations in this gene are associated with Noonan syndrome 5 and LEOPARD syndrome 2. [provided by RefSeq]

**Other Designations** Oncogene RAF1|raf proto-oncogene serine/threonine protein kinase

## Pathway

- [Acute myeloid leukemia](#)
- [B cell receptor signaling pathway](#)
- [Bladder cancer](#)

- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [Insulin signaling pathway](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Melanogenesis](#)
- [Melanoma](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [T cell receptor signaling pathway](#)

- [Vascular smooth muscle contraction](#)
- [VEGF signaling pathway](#)

## Disease

- [Abnormalities](#)
- [Arrhythmias](#)
- [Articulation Disorders](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Developmental Disabilities](#)
- [Diabetes Mellitus](#)
- [Dyslexia](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Hearing](#)
- [Heart Defects](#)
- [Hypertrophy](#)
- [Language Disorders](#)
- [LEOPARD Syndrome](#)
- [Memory](#)
- [Motor Skills](#)
- [Noonan Syndrome](#)
- [Skin Abnormalities](#)
- [Thyroid Neoplasms](#)