

## Basic Information

<b>Product Name</b>	Anti-RAF1 (Phospho-S621) Antibody (Clone#IOF-18)
<b>Gene Name</b>	RAF1
<b>Source</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	human, mouse, rat
<b>Tested Application</b>	WB
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
<b>Immunogen</b>	A synthesized peptide derived from human Phospho-Raf1 (S621)
<b>Concentration</b>	500 ug/ml
<b>Purification</b>	Affinity-chromatography
<b>Observed MW</b>	73 kDa
<b>Dilution Ratios</b>	Western blot (WB):1:500-2000

## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

RAF proto-oncogene serine/threonine-protein kinase, also known as proto-oncogene c-RAF or simply c-Raf or even Raf-1, is an enzyme that in humans is encoded by the RAF1 gene. This gene is the cellular homolog of viral raf gene (v-raf). The encoded protein is a MAP kinase kinasekinase (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.

## Selected Validation Data

Product datasheet

**Anti-RAF1 (Phospho-S621) Antibody  
(Clone#IOF-18)**

**Catalog Number: BM4778**

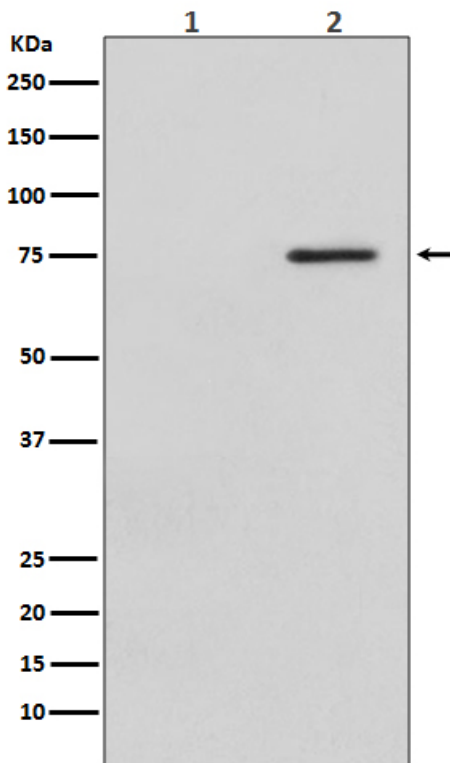
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Western blot analysis of Phospho-Raf1 (S621) expression in (1) HeLa cell lysate treated with LP; (2) HeLa cell lysate.