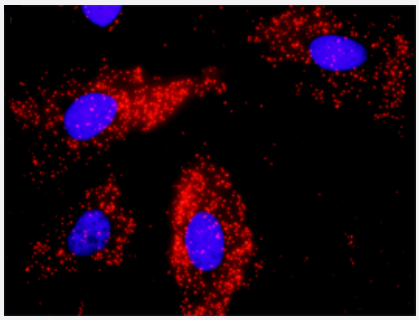
# RAF1(phospho S259) & RAF1 Protein Phosphorylation Antibody Pair

Catalog # DP0129 Size 1 Set

## Applications



Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

## Specification

| | |
|---|---|
| **Product Description** | This protein phosphorylation antibody pair set comes with two antibodies, one against the RAF1 prot ein, and the other against the specific S259 phosphorylated site of RAF1 for use in *in situ* Proximity Ligation Assay. See Publication Reference below. |
| **Reactivity** | Human |
| **Quality Control Testing** | Dual recognition immunofluorescence result.<br>Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were staine d with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal a ntibody 1:50. Each red dot represents one single phosphorylated protein. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University. |
| **Supplied Products** | Antibody pair set content:<br>1. Phospho-RAF1 S259 rabbit polyclonal antibody (20 ul)<br>In PBS, 150 mM NaCl, pH 7.4 (0.02% sodium azide, 50% glycerol)<br>2. RAF1 mouse monoclonal antibody (40 ug)<br>In 1x PBS, pH 7.2<br>*Reagents are sufficient for at least 30-50 assays using recommended protocols. |
| **Storage Instruction** | Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze tha w cycle. Reagents should be returned to -20°C storage immediately after use. |

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## Applications

- *In situ* Proximity Ligation Assay (Cell)

## Gene Info — RAF1

| | |
|---|---|
| **Entrez GeneID** | 5894 |
| **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 ki nase kinase (MAP3K), which functions downstream of the Ras family of membrane associated G TPases 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 activ ate the serine/threonine specific protein kinases, ERK1 and ERK2. Activated ERKs are pleiotropi c effectors of cell physiology and play an important role in the control of gene expression involved i n the cell division cycle, apoptosis, cell differentiation and cell migration. Mutations in this gene ar e 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

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- 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

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- 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

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