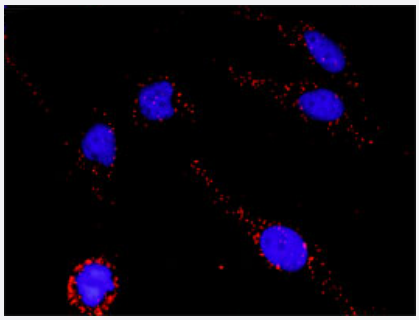
BRAF(phospho S445) & BRAF Protein Phosphorylation Antibody Pair

Catalog # DP0052 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 BRAF prot ein, and the other against the specific S445 phosphorylated site of BRAF for use in *in situ* Proximity Ligation Assay. See Publication Reference below.
Reactivity	Human
Quality Control Testing	Dual recognition immunofluorescence result. 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: 1. Phospho-BRAF S445 rabbit polyclonal antibody (20 ul) In PBS (0.09% (w/v) sodium azide) 2. BRAF mouse monoclonal antibody (40 ug) In 1x PBS, pH 7.2 *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 — BRAF

Entrez GeneID	673
Gene Name	BRAF
Gene Alias	B-RAF1, BRAF1, FLJ95109, MGC126806, MGC138284, RAFB1
Gene Description	v-raf murine sarcoma viral oncogene homolog B1
Omim ID	115150 164757 211980
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein belonging to the raf/mil family of serine/threonine protein kinases. Th is protein plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell div ision, differentiation, and secretion. Mutations in this gene are associated with cardiofaciocutane ous syndrome, a disease characterized by heart defects, mental retardation and a distinctive faci al appearance. Mutations in this gene have also been associated with various cancers, including non-Hodgkin lymphoma, colorectal cancer, malignant melanoma, thyroid carcinoma, non-small cel l lung carcinoma, and adenocarcinoma of lung. A pseudogene, which is located on chromosome X, has been identified for this gene. [provided by RefSeq
Other Designations	94 kDa B-raf protein|B-Raf proto-oncogene serine/threonine-protein kinase (p94)|Murine sarcom a viral (v-raf) oncogene homolog B1

Pathway

- Acute myeloid leukemia
- Bladder cancer
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer
- ErbB signaling pathway

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- Focal adhesion
- Glioma
- Insulin signaling pathway
- Long-term depression
- Long-term potentiation
- MAPK signaling pathway
- Melanoma
- mTOR signaling pathway
- 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
- Thyroid cancer
- Vascular smooth muscle contraction

Disease

- Abnormalities
- Adenocarcinoma
- Adenoma
- Adrenal Cortex Neoplasms
- Alcoholism
- Articulation Disorders

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- Astrocytoma
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cell Transformation
- Chromosomal Instability
- Chromosome Aberrations
- Cognition
- Cognition Disorders
- Colon cancer
- Colonic Neoplasms
- Colonic Polyps
- Colorectal Neoplasms
- Common Bile Duct Neoplasms
- Craniofacial Abnormalities
- Cystadenocarcinoma
- Cystadenoma
- Developmental Disabilities
- Dilatation
- Disease Progression
- Diseases in Twins
- Dyslexia
- Ectodermal Dysplasia
- Endometrial Hyperplasia
- Endometrial Neoplasms

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- Endometriosis
- Eosinophilia
- Esophageal Neoplasms
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease
- Glioma
- Goiter
- Hashimoto Disease
- Head and Neck Neoplasms
- Hearing
- Heart Defects
- Hyperpigmentation
- Hyperplasia
- Immunologic Deficiency Syndromes
- Language Disorders
- Liver Neoplasms
- Lung Neoplasms
- Lymphatic Metastasis
- Lymphoma
- Malignant melanoma
- Melanoma
- Memory
- Microsatellite Instability
- Motor Skills
- Nasopharyngeal Neoplasms
- Necrosis

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- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Nerve Sheath Neoplasms
- Neurofibromatosis
- Neurofibromatosis 1
- Nevus
- Noonan Syndrome
- Obesity
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Papillomavirus Infections
- Precancerous Conditions
- Prostatic Neoplasms
- Ras oncogene
- Rectal Neoplasms
- Recurrence
- Salivary Gland Neoplasms
- Skin Neoplasms
- Stomach Neoplasms
- Syndrome
- Testicular Neoplasms
- Thyroid Diseases

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- Thyroid Neoplasms
- Thyroid Nodule
- Thyroiditis
- Tobacco Use Disorder
- Urinary Bladder Neoplasms

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