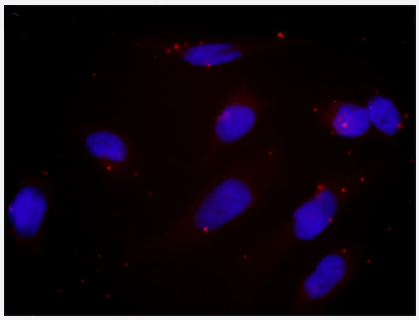
DNMT1(phospho S714) & DNMT1 Protein Phosphorylation Antibody Pair

Catalog # DP0018 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 DNMT1 protein, and the other against the specific S714 phosphorylated site of DNMT1 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 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.
Supplied Products	Antibody pair set content: 1. Phospho-DNMT1 S714 rabbit polyclonal antibody (20 ul) In PBS (0.09% (w/v) sodium azide) 2. DNMT1 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 thaw 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 — DNMT1

Entrez GeneID	1786
Gene Name	DNMT1
Gene Alias	AIM, CXXC9, DNMT, FLJ16293, MCMT, MGC104992
Gene Description	DNA (cytosine-5-)-methyltransferase 1
Omim ID	126375
Gene Ontology	Hyperlink
Gene Summary	DNA (cytosine-5-)-methyltransferase 1 has a role in the establishment and regulation of tissue-specific patterns of methylated cytosine residues. Aberrant methylation patterns are associated with certain human tumors and developmental abnormalities. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	CXXC finger protein 9|DNA methyltransferase 1

Pathway

- Cysteine and methionine metabolism
- Metabolic pathways

Disease

- Arsenic Poisoning
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Colorectal Neoplasms

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- Cues
- DNA Damage
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Satiety Response
- Spinal Dysraphism
- Stomach Neoplasms

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