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Zuschläge

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- Trockeneiszuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

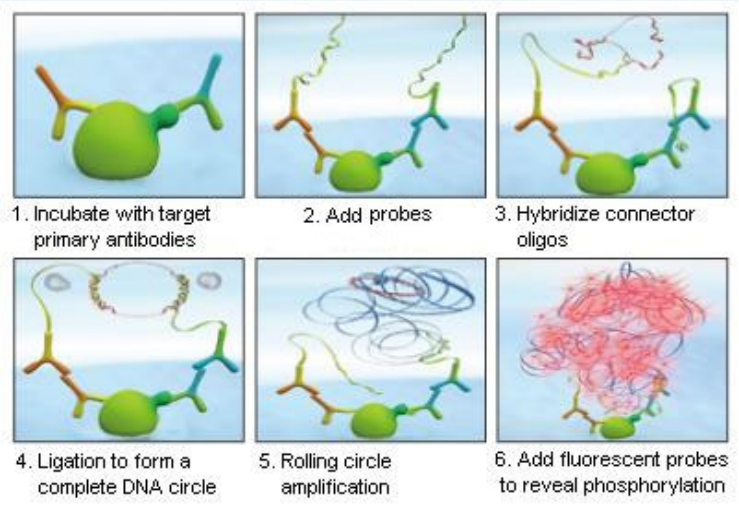
ATM(phospho S1981) & ATM Protein Phosphorylation Antibody Pair

Catalog # : DP0076 **規格 :** [1 Set]

List All

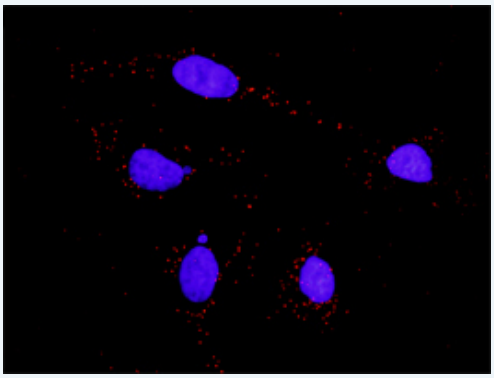
Specification

Product Description: This protein phosphorylation antibody pair set comes with two antibodies, one against the ATM protein, and the other against the specific S1981 phosphorylated site of ATM 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 Product: Antibody pair set content:
1. Phospho-ATM S1981 rabbit polyclonal antibody (20 ul)
In PBS (0.09% (w/v) sodium azide)
2. ATM mouse monoclonal antibody (40 ug)
In 1x PBS, pH 7.2
*Reagents are sufficient for at least 30-50 assays using recommended protocols.

Application Image

In situ Proximity Ligation Assay (Cell)

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.

Publication Reference

1. In situ detection of phosphorylated platelet-derived growth factor receptor beta using a generalized proximity ligation method.
   Jarvius M, Paulsson J, Weibrecht I, Leuchowius KJ, Andersson AC, Wahlby C, Gullberg M,Botling J, Sjoblom T, Markova B, Ostman A, Landegren U, Soderberg O.
   Mol Cell Proteomics. 2007 Sep;6(9):1500-9. Epub 2007 Jun 12.
2. Direct observation of individual endogenous protein complexes in situ by proximity ligation.
   Soderberg O, Gullberg M, Jarvius M , Ridderstrale K, Leuchowius KJ, Jarvius J, Wester K, Hydbring P, Bahram F, Larsson LG, and Landegren U.
   Nat Methods. 2006 Dec;3(12):995-1000. Epub 2006 Oct 29.
3. Cytokine detection by antibody-based proximity ligation.
   Gullberg M, Gustafsdottir SM, Schallmeiner E, Jarvius J, Bjarnegard M, Betsholtz C, Landegren U, and Fredriksson S.
   Proc Natl Acad Sci U S A. 2004 Jun 1;101(22):8420-4. Epub 2004 May 21.
4. Protein detection using proximity-dependent DNA ligation assays.
   Fredriksson S, GullbergM, Jarvius J, Olsson C, Pietras K, Gustafsdottir SM, Ostman A, and Landegren U.
   Nat Biotechnol. 2002 May;20(5):473-7.
5. Highly specific detection of phosphorylated proteins by Duolink
   Mats Gullberg and Ann-Catrin Andersson
   Nature Methods 6. 2009

Applications

***In situ* Proximity Ligation Assay (Cell)**

Gene Information

Entrez GeneID:	472
Gene Name:	ATM
Gene Alias:	AT1,ATA,ATC,ATD,ATDC,ATE,DKFZp781A0353,MGC74674,TEL1,TELO1
Gene Description:	ataxia telangiectasia mutated
Omim ID:	114480, 208900, 607585
Gene Ontology:	Hyperlink
Gene Summary:	The protein encoded by this gene belongs to the PI3/PI4-kinase family. This protein is an important cell cycle checkpoint kinase that phosphorylates; thus, it functions as a regulator of a wide variety of downstream proteins, including tumor suppressor proteins p53 and BRCA1, checkpoint kinase CHK2, checkpoint proteins RAD17 and RAD9, and DNA repair protein NBS1. This protein and the closely related kinase ATR are thought to be master controllers of cell cycle checkpoint signaling pathways that are required for cell response to DNA damage and for genome stability. Mutations in this gene are associated with ataxia telangiectasia, an autosomal recessive disorder. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations:	AT mutated,TEL1, telomere maintenance 1, homolog,ataxia telangiectasia mutated (includes complementation groups A, C and D),ataxia telangiectasia mutated protein,human phosphatidylinositol 3-kinase homolog,serine-protein kinase ATM

Gene Pathway

Apoptosis Cell cycle p53 signaling pathway

Related Disease

Acute Disease Adenocarcinoma Ataxia Telangiectasia Ataxia telangiectasia
Atherosclerosis Brain Neoplasms Breast cancer Breast Neoplasms Carcinoma
Carcinoma, Ductal, Breast Carcinoma, Lobular Carcinoma, Non-Small-Cell Lung
Carcinoma, Pancreatic Ductal Carcinoma, Squamous Cell Cardiovascular Diseases
Chromosome Aberrations Cocarcinogenesis Colorectal Neoplasms
Colorectal Neoplasms, Hereditary Nonpolyposis

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