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SPDYA Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9978a

Specification

SPDYA Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q5MJ70

SPDYA Antibody (Center) Blocking Peptide - Additional Information

Gene ID 245711

Other Names
Speedy protein A, Rapid inducer of G2/M progression in oocytes A, RINGO A, hSpy/Ringo A, Speedy-1, Spy1, SPDYA (HGNC:30613)

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SPDYA Antibody (Center) Blocking Peptide - Protein Information

Name SPDYA (HGNC:30613)

Function
Regulates the G1/S phase transition of the cell cycle by binding and activating CDK1 and CDK2 (PubMed:12972555). Contributes to CDK2 activation without promoting CDK2 phosphorylation, by inducing a conformation change of the CDK2 T-loop that obstructs the substrate- binding cleft prior to kinase activation (PubMed:28666995). Mediates cell survival during the DNA damage process through activation of CDK2 (PubMed:12839962).

Cellular Location
Nucleus

Tissue Location
Highly expressed in testis. Expressed at a low level in wide range of tissues including bone marrow, brain, heart, kidney, colon, liver, placenta, spleen, skeletal muscle, salivary gland, thyroid

gland, thymus, trachea and uterus. Expressed at a slightly higher level in adrenal gland, cerebellum, small intestine, lung, prostate and trachea. Expression is cell cycle-dependent, being restricted to cells in G1/S phase.

SPDYA Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SPDYA Antibody (Center) Blocking Peptide - Images

SPDYA Antibody (Center) Blocking Peptide - Background

SPDYA (speedy homolog A (Drosophila)) regulates the G1/S phase transition of the cell cycle by binding and activating CDC2, CDK2 and CDKN1B/KIP1. SPDYA can activate CDK2 without promoting CDK2 phosphorylation. SPDYA mediates cell survival during the DNA damage process through activation of CDK2.

SPDYA Antibody (Center) Blocking Peptide - References

Ke, Q., et al. Exp. Mol. Pathol. 87(3):167-172(2009)Dinarina, A., et al. FEBS Lett. 583(17):2772-2778(2009)McAndrew, C.W., et al. Cell Cycle 8(1):66-75(2009)