

Rabbit SPDYA Polyclonal Antibody | anti-SPDYA antibody

SPDYA Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326634	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SPDYA; Polyclonal Antibody; SPDYA Antibody; hSpy/Ringo A; MGC110856; MGC57218; OTTHUMP00000082662; OTTHUMP00000082663; OTTHUMP00000082664; Rapid inducer of G2/M progression in oocytes A; RINGO A; RINGO3; SPDY1; Speedy A; Speedy homolog 1 (Drosophila); Speedy homolog A; Speedy homolog A (Xenopus laevis); Speedy-1; SPY1; anti-SPDYA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SPDYA antibody detects endogenous levels of total SPDYA
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	286
Applicable Applications for anti-SPDYA antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SPDYA
Subcellular Location	Nuclear
Tissue Specificity	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.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326634 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Mouse brain lysate, using SPDYA Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SPDYA antibody	Description: Speedy A, also known as SPDYA, SPDY1, Ringo3 or SPY1, is a 313 amino acid protein that localizes to the nucleus and belongs to the speedy/ringo family. Expressed at high levels in testis and at lower levels in brain, kidney, heart, bone marrow, colon, lung, liver spleen and placenta, Speedy A functions to regulate the G1/S phase transition of the cell cycle, specifically by binding to and activating Cdc2 p34, Cdk2 and p27. Additionally, Speedy A mediates cell survival during DNA damage, suggesting that Speedy A plays a role in proper cell cycle progression throughout the life of the cell. Multiple isoforms of Speedy A exist due to alternative splicing events. The gene encoding Speedy A maps to human chromosome 2, which encodes over 1, 400 genes and comprises nearly 8% of the human genome. 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). Subunit Structure: Interacts with CDK1 (By similarity). Interacts with CDK2 (PubMed:11980914, PubMed:12839962, PubMed:12972555, PubMed:28666995). May interact with CDKN1B/KIP1 (PubMed:12972555). Identified in a complex with CDK2 and CDKN1B/KIP1, where it interacts primarily with CDK2 (PubMed:12972555, PubMed:28666995). Similarity: The C-terminus is required for CDK2-activation, but not CDK2-binding. Belongs to the Speedy/Ringo family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	56961678
NCBI GeneID	245711
NCBI Accession #	NP_001008779.1
NCBI GenBank Nucleotide #	NM_001008779.1
UniProt Accession #	Q5MJ70; Q53R05; Q5MJ69
Molecular Weight	Observed: 36 kDa Predicted: 37 kDa
NCBI Official Full Name	speedy protein A isoform 2
NCBI Official Synonym Full Names	speedy/RINGO cell cycle regulator family member A
NCBI Official Symbol	SPDYA
NCBI Official Synonym Symbols	SPY1; SPDY1; RINGO3; RINGOA
NCBI Protein Information	speedy protein A
UniProt Protein Name	Speedy protein A
UniProt Gene Name	SPDYA
UniProt Synonym Gene Names	RINGO A; hSpy/Ringo A; Spy1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/spdya-antibody-immunohistochemistry-western-blot-elisa/326634>