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Speedy / Ringo antibody

Rabbit Polyclonal antibody to Speedy / Ringo

Catalog Number **NB 100-2521**

Background: Speedy/Ringo (Spy1) regulates the G1/S phase transition of the cell cycle by binding and activating CDC2, CDK2 and CDKN1B/KIP1. It mediates cell survival during the DNA damage process through activation of CDK2. It is also an important protein involved in regulating the development, growth and maintenance of breast cells. Of particular interest, Spy1 has recently been implicated in advanced breast cancer.

Alternate Names: Speedy A isoform antibody, SPDY1 protein antibody, Spy antibody, Ringo antibody, Spy1 antibody

Specificity: This antibody is specific for Speedy/Ringo protein.

Immunogen: A synthetic peptide made to a C-terminal region of the human Speedy protein (within residues 200-286). This immunogen is conserved in both isoforms 1 and 2. [Swiss-Prot Q5MJ69]

Cellular Localization: Nuclear

Host: Rabbit

Species Reactivity: Mouse. Other species have not been tested.

Uses and Dilutions: This antibody is useful for Western blot analysis, where a band is seen at ~36 kDa (isoform 2). After a longer exposure, a 31 kDa band can be detected (isoform 1). There is also a non-specific band at ~58 kDa. This antibody was tested against human and mouse brain samples, but failed to detect proteins of the predicted size in either lysate.

Suggested starting dilutions are as follows:*
Western Blot: 2 ug/ml.

*Investigator should determine optimal working conditions and dilutions.

Positive Control: Mouse testis lysate

Form: 0.1 ml of affinity purified rabbit antisera.

Concentration: 1.1 mg/ml

Storage Buffer: Tris-citrate/phosphate (pH 7-8)

Preservative: 0.1% sodium azide

Storage: 2-8 degrees Celcius.

Limitations: This product is for research use only and is not approved for use in humans or in clinical diagnosis.

General References:

1. Porter, LA., Human Speedy: a novel cell cycle regulator that enhances proliferation through activation of Cdk2. JCB. 157(3): 357-366 (2002)

Image(s)

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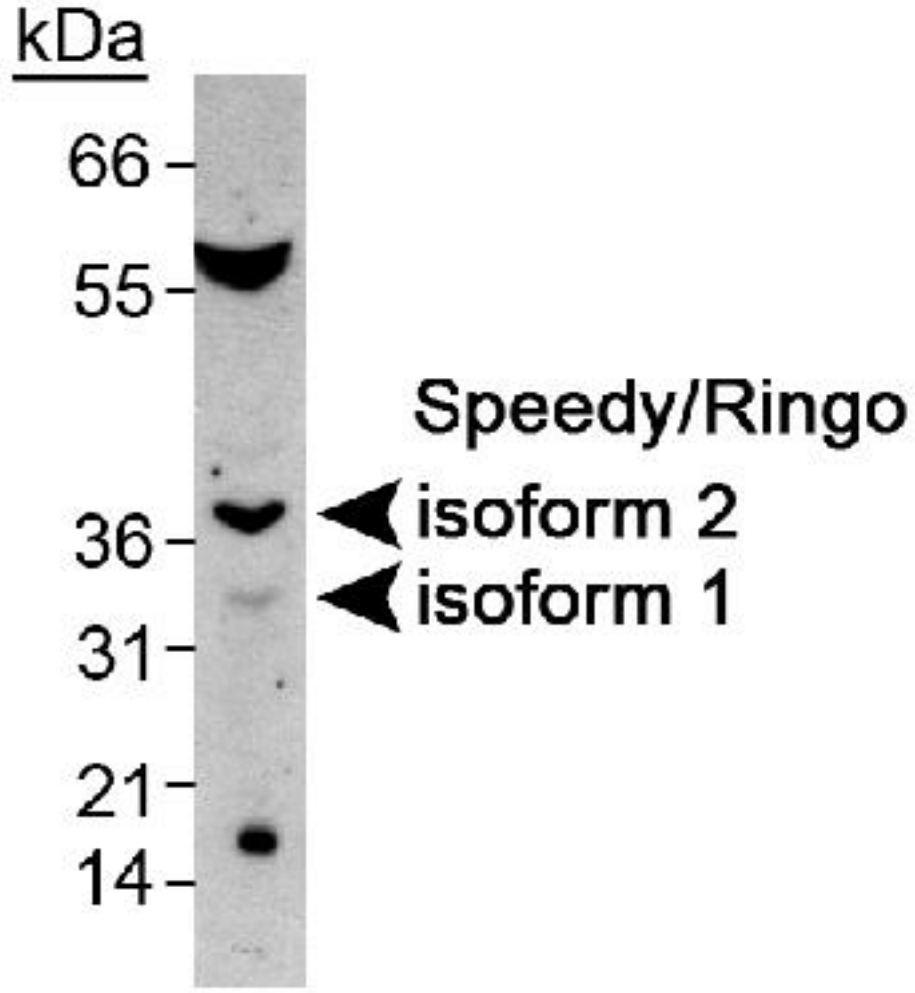

Detection of Speedy/Ringo in mouse testis using NB 100-2521 (2ug/ml).