



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Centrin-2 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 20	Source/Isotype: Rabbit	UniProt ID: #P41208	Entrez-Gene Id: 1069
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Centrin-2 Antibody detects endogenous levels of total centrin-2 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human centrin-2. Antibodies are purified using protein A and peptide affinity chromatography.

Background

Centrins are small conserved microtubule nucleating proteins localized to centrosomes, also known as microtubule organizing centers (MTOC), in eukaryotic cells. Centrin-1 is associated with cells that have cilia and flagella, whereas centrin-2 and -3 are ubiquitously expressed and important in centrosome duplication during cell division, as well as the structure and function of the MTOC (1-3). Human centrin-2 has also been shown to localize to nuclear pores and to have a role in regulation of mRNA export (4). The yeast ortholog of centrin-2, CDC31, plays a part in control of protein degradation and sensitivity to DNA damage (5).

Background References

1. Salisbury, J.L. (2007) *J Cell Physiol* 213, 420-8.
2. Salisbury, J.L. et al. (2002) *Curr Biol* 12, 1287-92.
3. Middendorp, S. et al. (2000) *J Cell Biol* 148, 405-16.
4. Resendes, K.K. et al. (2008) *Mol Cell Biol* 28, 1755-69.
5. Chen, L. and Madura, K. (2008) *Mol Cell Biol* 28, 1829-40.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **Mk:** Monkey

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