

WAPL (D9J1U) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	160	Rabbit IgG	#Q7Z5K2	23063

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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

WAPL (D9J1U) Rabbit mAb recognizes endogenous levels of total WAPL protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human WAPL protein.

Background

The cohesin protein complex consists of a heterodimer between SMC1 (SMC1A or B) and SMC3, bound by additional RAD21 and STAG proteins (STAG1, 2, or 3). These proteins form a ring-like structure that mediates the cohesion of two sister chromatids after DNA replication in S phase (1,2). WAPL, also wings apart-like or WAPAL, is a chromatin-associated protein that binds to the cohesin protein complex and regulates its function and its interaction with chromatin (3,4). WAPL, through its interaction with cohesin, is important in the regulation of chromosome structure, cell cycle progression and appropriate chromosome segregation (5,6). Depletion of WAPL leads to segregation errors and DNA damage, and in p53 deficient cells leads to aneuploidy (6).

Background References

1. Peters, J.M. et al. (2008) *Genes Dev* 22, 3089-114.
2. Barbero, J.L. (2009) *Cell Mol Life Sci* 66, 2025-35.
3. Kueng, S. et al. (2006) *Cell* 127, 955-67.
4. Gandhi, R. et al. (2006) *Curr Biol* 16, 2406-17.
5. Tedeschi, A. et al. (2013) *Nature* 501, 564-8.
6. Haarhuis, J.H. et al. (2013) *Curr Biol* 23, 2071-7.

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 **M:** Mouse **R:** Rat

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