

ATRIP Antibody

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| Applications: W, IP, IF-IC | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 82 | Source/Isotype: Rabbit | UniProt ID: #Q8WXE1 | Entrez-Gene Id: 84126 |
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
1:400

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

ATRIP Antibody detects endogenous levels of total ATRIP protein. This antibody is expected to detect all isoforms of ATRIP protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Gly267 of human ATRIP. Antibodies are purified by protein A and peptide affinity chromatography.

Background

In response to genomic stress, the ATR interacting protein (ATRIP) binds and is phosphorylated by the DNA damage-and checkpoint-activated kinase ATR (ataxia-telangiectasia mutated and rad3-related). Both ATR and ATRIP are integral for checkpoint signaling and are critical in the DNA repair response (1-3). Direct interaction between ATRIP and replication protein A (RPA) at RPA-coated, single-stranded DNA results in the recruitment of phosphorylated ATR/ATRIP to stalled replication forks and sites of DNA damage (3). ATR/ATRIP coordinate DNA repair and cell cycle progression in conjunction with key regulatory proteins, such as Rad17 and the 9-1-1 complex (4). ATR associated with ATRIP can also be stimulated by topoisomerase II binding protein (TOPBP1), suggesting that ATRIP may regulate both ATR localization and activity (5).

Background References

1. Cortez, D. et al. (2001) *Science* 294, 1713-1716.
2. Itakura, E. et al. (2004) *Biochem. Biophys. Res. Commun.* 323, 1197-1202.
3. Zou, L. and Elledge, S.J. (2003) *Science* 300, 1542-1548.
4. Yang, X.H. and Zou, L. (2006) *Methods Enzymol.* 409, 118-131.
5. Ball, H.L. et al. (2007) *Mol Cell Biol* 27, 3367-77.

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 **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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