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Phospho-Ser239 ATRIP Antibody

Affinity purified rabbit polyclonal antibody
Catalog # AN1255

Specification

Phospho-Ser239 ATRIP Antibody - Product Information

Application	**WB**
Primary Accession	Q8WXE1
Reactivity	**Mouse**
Predicted	**Bovine, Human, Monkey**
Host	**Rabbit**
Clonality	**polyclonal**
Calculated MW	**86 KDa**

Phospho-Ser239 ATRIP Antibody - Additional Information

Gene ID	**84126**
Gene Name	**ATRIP**

Other Names
ATR-interacting protein, ATM and Rad3-related-interacting protein, ATRIP, AGS1

Target/Specificity
Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser239 conjugated to KLH.

Dilution
WB~~ 1:500

Format
Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephospho-peptide affinity columns.

Antibody Specificity
Specific for the ~86k ATRIP protein phosphorylated at Ser239. The antibody also recognizes a band at ~32k.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Phospho-Ser239 ATRIP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

Phospho-Ser239 ATRIP Antibody - Protocols

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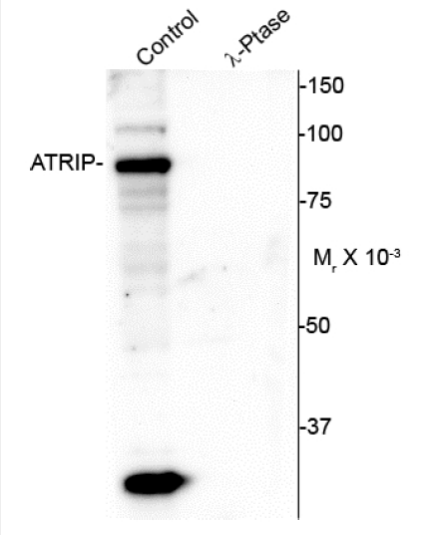
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-Ser239 ATRIP Antibody - Images



Western blot of mouse testis lysate showing specific immunolabeling of the ~86kd ATRIP protein phosphorylated at Ser239 (control). Phosphospecificity is shown in the second lane (lambda-phosphatase: λ-Ptase). The blot is identical to the control except that the lysate was incubated in λ-Ptase (800 units/1mg protein for 30 min). The immunolabeling is completely eliminated by treatment with λ-Ptase.

Phospho-Ser239 ATRIP Antibody - Background

ATRIP, ATR interacting protein, binds to ATR to regulate ATR expression, and is an essential component of the DNA damage checkpoint pathway (Cortez et al, 2001). ATR is recruited to DNA lesions in part through its association with ATRIP, which in turn interacts with the single-stranded DNA binding protein RPA (Ball et al, 2007). DNA replication forks may stall as a result of DNA damage causing phosphorylation of several proteins, including BRCA1 when colocalizing with ATR/ATRIP complex and RPA (Venere et al, 2007). The DNA replication fork stall coincides with BRCA1 directly phosphorylating ATRIP at ser239 (Venere et al, 2007).

Phospho-Ser239 ATRIP Antibody - References

Cortez D, Guntuku S, Qin J, Elledge SJ (2001) ATR and ATRIP: partners in checkpoint signaling. Science 294(5547):1713-6.
Ball HL, Ehrhardt MR, Mordes DA, Glick GG, Chazin WJ, Cortex D. (2007) Function of a conserved checkpoint recruitment domain in ATRIP proteins. Mol Cel Biol. 27(9):3367-77.
Venere M, Synder A, Zgheib, and Halazonetis T. (2007) Phosphorylation of ATR-intereacting Protien on Ser239 Mediates an Interaction with Breast-Ovarian Cancer Susceptibility 1 and Checkpoint Function. Cancer Res 67(13): 6100-5.