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Anti-ATR ANTXR1 Antibody

Catalog Number: A01563-1

About ANTXR1

The Anthrax toxin receptor (ATR) was initially discovered as the tumor endothelial marker 8 (TEM8). This protein, which exists in three isoforms (36, 40, and 60 kDa), is highly expressed in tumor vessels as well as in the vasculature of developing embryos, suggesting that it may normally play a role in angiogenesis. However, it also acts as the receptor for anthrax toxin. Following the binding of this protein by the protective antigen (PA) of anthrax, PA is cleaved and heptamerizes to form the binding site for both edema factor (EF) and lethal factor (LF). This complex is then endocytosed by the cell; acidification in endosomes allows the release of EF and LF into the cytoplasm where they interfere with MAPK signaling and induce apoptosis.

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Overview

Product Name	Anti-ATR ANTXR1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ATR ANTXR1 Antibody (Catalog # A01563-1). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	ATR Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	ATR antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9H6X2

Technical Details

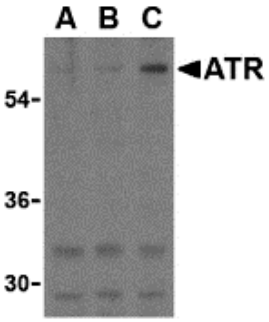
Immunogen	ATR antibody was raised against a peptide corresponding to 13 amino acids near the C-terminus of human ATR. The immunogen is located within the last 50 amino acids of ATR.
Predicted Reactive Species	Rat

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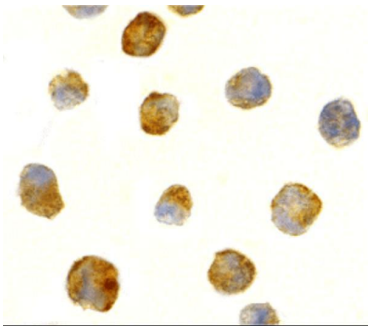
Cross Reactivity	ATR antibody will recognize only the largest isoform.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	ATR Antibody is Ion exchange chromatography purified.
Suggested Dilutions	ATR antibody can be used for detection of ATR by Western blot at 0.5 to 2 ug/mL. Antibody can also be used for immunocytochemistry starting at 2 ug/mL. For immunofluorescence start at 10 ug/mL. Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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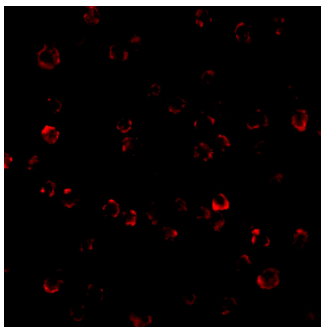
Anti-ATR ANTXR1 Antibody (A01563-1) Images



Western blot analysis of ATR in K562 cell lysates with ATR antibody at (A) 0.5, (B) 1, and (C) 2 ug/mL.



Immunocytochemistry of ATR in K562 cells with ATR antibody at 2 ug/mL.



Immunofluorescence of ATR in K562 cells with ATR antibody at 10 ug/mL.

Anti-ATR ANTXR1 Antibody

For Research Use Only. Not for use in diagnostic procedures.