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Datasheet for ABIN499363

## anti-ANTXR1 antibody (Intermediate Domain)

### 2 Images

#### Overview

Quantity:	0.1 mg
Target:	ANTXR1
Binding Specificity:	Intermediate Domain
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ANTXR1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

#### Product Details

Immunogen:	Human ATR / TEM8 (Intermediate Domain) Peptide
Isotype:	IgG
Specificity:	ATR antibody was raised against a peptide corresponding to 13 amino acids near the center of human ATR. It will recognize all three isoforms.
Purification:	Ion exchange chromatography

#### Target Details

Target:	ANTXR1
Alternative Name:	Anthrax Toxin Receptor 1 ( <a href="#">ANTXR1 Products</a> )

## Target Details

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**Background:** The Anthrax toxin receptor (ATR) was initially discovered as the tumor endothelial marker 8 (TEM8) (1). 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 (2). 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) (3). 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 (4).  
Synonyms: ANTXR1, ATR, TEM8, Tumor endothelial marker 8

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**Gene ID:** 84168

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**NCBI Accession:** [NP\\_444262](#)

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**UniProt:** [Q9H6X2](#)

## Application Details

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**Application Notes:** ELISA. Western Blot: ATR antibody can be used for detection of ATR at 0.5 to 1 µg/mL.  
Immunohistochemistry.  
Other applications not tested.  
Optimal dilutions are dependent on conditions and should be determined by the user.

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**Restrictions:** For Research Use only

## Handling

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**Buffer:** PBS containing 0.02 % sodium azide.

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**Preservative:** Sodium azide

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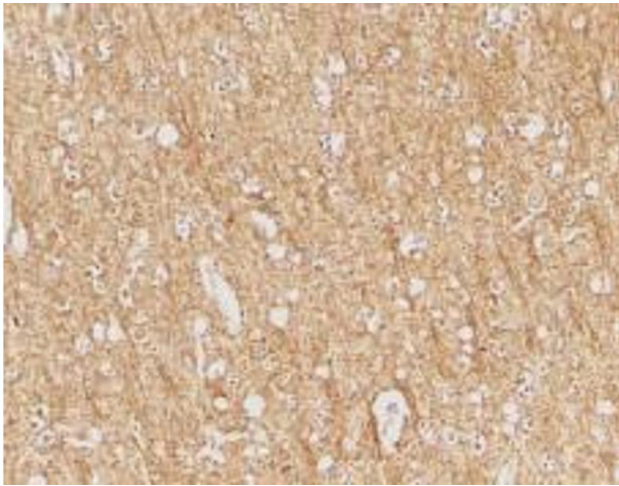
**Precaution of Use:** This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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**Storage:** 4 °C

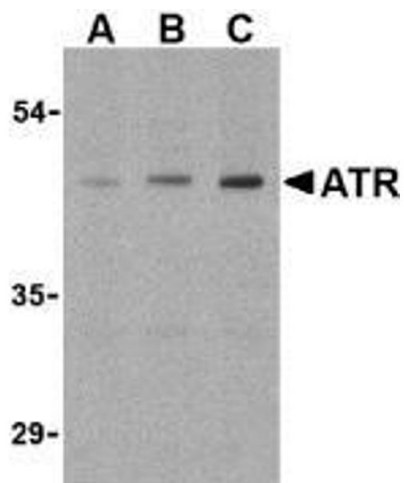
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**Storage Comment:** Store the antibody undiluted at 2-8 °C.



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemical staining of human brain tissue using AP30096PU-N ATR antibody at 2 µg/ml.



#### Western Blotting

**Image 2.** Western blot analysis of ATR in HepG2 cell lysates with this product atR antibody (IN) at (A) 0.5, (B) 1, and (C) 2 µg/ml.