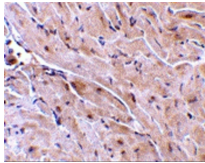
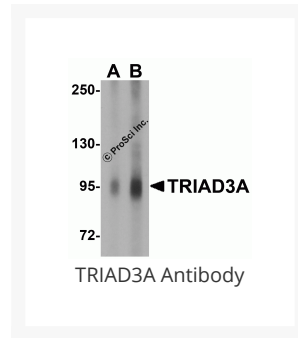


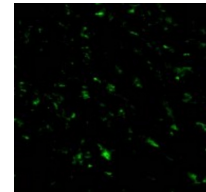


# TRIAD3A Antibody

Cat. No.: 3371



Immunohistochemistry of TRIAD3A in mouse heart with TRIAD3A antibody at 10  $\mu$ g/mL.



Immunofluorescence of TRIAD3A in Mouse Heart cells with TRIAD3A antibody at 20  $\mu$ g/mL.

## $\Psi$ Specifications

<b>HOST SPECIES:</b>	Rabbit
<b>SPECIES REACTIVITY:</b>	Human, Mouse
<b>IMMUNOGEN:</b>	TRIAD3A antibody was raised against a peptide corresponding to 15 amino acids near the amino-terminus of mouse TRIAD3A.  The immunogen is located within amino acids 120 - 170 of TRIAD3A.
<b>TESTED APPLICATIONS:</b>	ELISA, IF, IHC-P, WB

<b>APPLICATIONS:</b>	<p>TRIAD3A antibody can be used for detection of TRIAD3A by Western blot at 1 to 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL. For immunofluorescence start at 20 µg/mL.</p> <p>Antibody validated: Western Blot in mouse samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.</p>
<b>POSITIVE CONTROL:</b>	1) Cat. No. 1401 - Mouse Heart Tissue Lysate
<b>PREDICTED MOLECULAR WEIGHT:</b>	<p>Predicted: 95 kDa</p> <p>Observed: 95 kDa</p>

## Ψ Properties

<b>PURIFICATION:</b>	TRIAD3A Antibody is Ion exchange chromatography purified.
<b>CLONALITY:</b>	Polyclonal
<b>ISOTYPE:</b>	IgG
<b>CONJUGATE:</b>	Unconjugated
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	TRIAD3A Antibody is supplied in PBS containing 0.02% sodium azide.
<b>CONCENTRATION:</b>	1 mg/mL
<b>STORAGE CONDITIONS:</b>	TRIAD3A antibody can be stored at 4 °C for three months and -20 °C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

## Ψ Additional Info

<b>OFFICIAL SYMBOL:</b>	RNF216
<b>ALTERNATE NAMES:</b>	TRIAD3A Antibody: ZIN, CAHH, U711, TRIAD3, UBCE7IP1, ZIN, E3 ubiquitin-protein ligase RNF216, RING finger protein 216
<b>ACCESSION NO.:</b>	AAP47174
<b>PROTEIN GI NO.:</b>	31324099
<b>GENE ID:</b>	54476
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.

## Ψ Background and References

<b>BACKGROUND:</b>	<p>TRIAD3A Antibody: Activation of NF-<math>\kappa</math>B as a result of Toll-like receptor (TLR) and IL-1 receptor signaling is a major component of innate immune responses. Signals from these receptors are relayed by a number of adapter molecules such as TRIF, TIRAP, and MyD88. Several regulatory mechanisms exist to control TLR signal transduction, including the inhibition of TLR expression and signaling by molecules such as ST2 and SIGIRR. Another mechanism is by the ubiquitination of selected TLRs by TRIAD3A, an E3 ubiquitin-protein ligase. TRIAD3A is a RING finger protein that can bind to TLR4 and TLR9, and to a lesser extent TLR3 and TLR5, catalyzing the ubiquitination of these molecules. Overexpression of TRIAD3A promoted the nearly complete degradation of TLR4 and TLR9; this reduction was reflected in the decreased signal-specific activation by ligands specific for these TLRs. Conversely, depletion of TRIAD3A resulted in enhanced TLR activation.</p>
<b>REFERENCES:</b>	<p>1) Takeda K, Kaisho T, and Akira S. Toll-like receptors. <i>Annu. Rev. Immunol.</i> 2003; 21:335-76.</p>
	<p>2) Vogel SN, Fitzgerald KA, and Fenton MJ. TLRs: differential adapter utilization by toll-like receptors mediates TLR-specific patterns of gene expression. <i>Mol. Interv.</i> 2003; 3:466-77.</p>
	<p>3) Sweet MJ, Leung BP, Kang D, et al. A novel pathway regulating lipopolysaccharide-induced shock by ST2/T1 via inhibition of Toll-like receptor 4 expression. <i>J. Immunol.</i> 2001; 166:6633-9.</p>
	<p>4) Wald D, Qin J, Zhao Z, et al. SIGIRR, a negative regulator of Toll-like receptor-interleukin 1 receptor signaling. <i>Nat. Immunol.</i> 2003; 4:920-7.</p>

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