

# Product Datasheet

## TOM70 Antibody - Azide and BSA Free NB110-58347

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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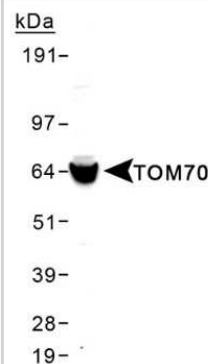
**NB110-58347**

TOM70 Antibody - Azide and BSA Free

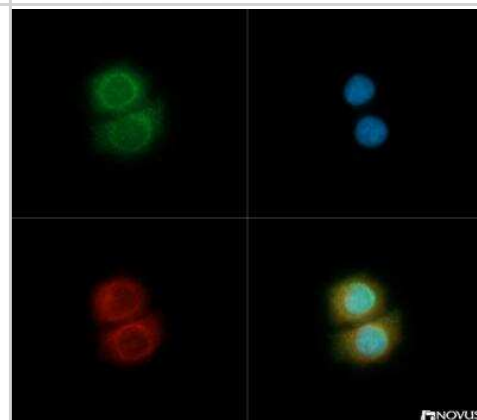
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	67 kDa
Product Description	
Host	Rabbit
Gene ID	9868
Gene Symbol	TOMM70
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Rabbit reactivity reported in scientific literature (PMID: 22292033).
Immunogen	A synthetic peptide made to a region within residues 1-100 of the human TOM70 protein. [Swiss-Prot# O94826]
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500, Simple Western 1:50, Immunocytochemistry/ Immunofluorescence 1:100
Application Notes	<p>This TOM70 antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot, where a band is seen at approx. 67 kDa. In ICC/IF mitochondrial staining was observed in MCF7 cells.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in MCF-7 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 63 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> <p>The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.</p>

## Images

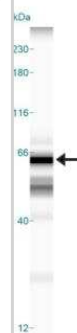
Western Blot: TOM70 Antibody [NB110-58347] - Detection of TOM70 in MCF7 mitochondrial lysate



Immunocytochemistry/Immunofluorescence: TOM70 Antibody [NB110-58347] - TOM70 antibody was tested in MCF7 cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



Simple Western: TOM70 Antibody [NB110-58347] - Simple Western lane view shows a specific band for TOM70 in 0.5 mg/ml of MCF-7 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



## Publications

Filadi R, Leal NS, Schreiner B et al. TOM70 Sustains Cell Bioenergetics by Promoting IP3R3-Mediated ER to Mitochondria Ca<sup>2+</sup> Transfer. *Curr Biol* 2018-01-27 [PMID: 29395920] (Human)

Kang BH, Xia F, Pop R et al. Developmental control of apoptosis by the immunophilin aryl hydrocarbon receptor-interacting protein (AIP) involves mitochondrial import of the survivin protein *J Biol Chem* 2011-05-01 [PMID: 21454573] (WB, Human)

Nakamura Y, Kitamura N, Shinogi D et al. BNIP3 and NIX Mediate Mieap-Induced Accumulation of Lysosomal Proteins within Mitochondria. *PLoS One*. 2012-01-26 [PMID: 22292033] (ICC/IF, Rabbit)

Miyamoto T, Kitamura N, Ono M et al. Identification of 14-3-3gamma as a Mieap-interacting protein and its role in mitochondrial quality control. *Sci Rep*. 2012-04-24 [PMID: 22532927] (WB, Human)



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### **Products Related to NB110-58347**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-38571PEP	TOM70 Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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