

# Product Datasheet

## **CD27 Ligand/TNFSF7/CD70 Antibody (TAN1-6) - Chimeric - Azide and BSA Free NBP3-09030-0.2mg**

Unit Size: 0.2 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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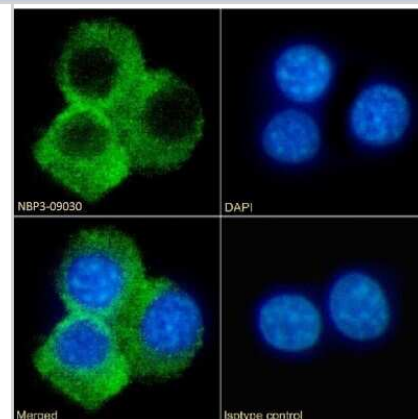
**NBP3-09030-0.2mg**

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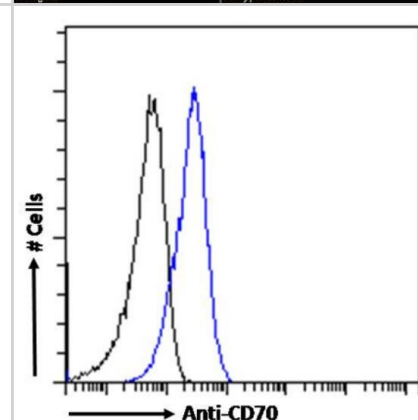
Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	TAN1-6
Preservative	0.02% Proclin 300
Isotype	IgG Kappa
Purity	Protein A purified
Buffer	PBS
Product Description	
Host	Rabbit
Gene ID	970
Gene Symbol	CD70
Species	Mouse
Immunogen	This antibody was raised by immunising LOU rats with soluble recombinant CD70:Fc fusion protein
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Block/Neutralize
Recommended Dilutions	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Block/Neutralize
Application Notes	<p>This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.</p> <p>This antibody has been used in various FACS analyses to reveal a critical role for CD70 in CD8 T cell priming by CD40-licensed antigen-presenting cells (Taraban et al, 2004), to demonstrate the differential requirement for CD70 and CD80/CD86 in dendritic cell-mediated activation of tumor-tolerized CD8 T cells (Bak et al, 2012), to examine how temporal changes in dendritic cell subsets, cross-priming and costimulation via CD70 control CD8(+) T cell responses to influenza (Ballesteros-Tato et al, 2010), and to show that CD70 is downregulated by interaction with CD27 (Kuka et al, 2013). In addition, this antibody has been used in vivo to block the CD70-CD27 interaction as part of the two studies examining how CD70 is critically required for the priming of CD8+ T cells (Taraban et al, 2004; Taraban et al, 2006).</p>

## Images

**Immunocytochemistry/Immunofluorescence: CD27 Ligand/TNFSF7/CD70 Antibody (TAN1-6) - Chimeric [NBP3-09030] -** Immunofluorescence analysis of paraformaldehyde fixed RAW264.7 cells on Shi-fix(TM) coverslips stained with the chimeric rabbit IgG version of TAN1-6 (NBP3-09030) at 10 ug/ml for 1h followed by Alexa Fluor(R) 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom NBP3-09030, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor(R) 488 secondary antibody



**Flow Cytometry: CD27 Ligand/TNFSF7/CD70 Antibody (TAN1-6) - Chimeric - Azide and BSA Free [NBP3-09030] -** Paraformaldehyde fixed mouse splenocytes permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody (isotype control, black line) or NBP3-09030 (blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.





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### **Products Related to NBP3-09030-0.2mg**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
210-TA-005	TNF-alpha [Unconjugated]
783-CL-050/CF	CD27 Ligand/TNFSF7/CD70

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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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