

# Product Datasheet

## 4-1BB Ligand/TNFSF9 Antibody (AT113-2) [Alexa Fluor™ Plus 680] NBP3-11987AFP680

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP3-11987AFP680**

4-1BB Ligand/TNFSF9 Antibody (AT113-2) [Alexa Fluor™ Plus 680]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	AT113-2
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Conjugate	Alexa Fluor Plus 680
Purity	Protein A purified
Buffer	50mM Sodium Borate

Product Description	
Host	Rat
Gene ID	8744
Gene Symbol	TNFSF9
Species	Mouse
Specificity/Sensitivity	This antibody is specific for 4-1BB ligand (also known as CD137 ligand), which is a member of the TNF superfamily and is a type II membrane protein. 4-1BB ligand is a co-stimulatory molecule that is expressed on antigen presenting cells (DCs, monocytes/macrophages, B cells) and is upregulated upon activation of these cells. Both of the 4-1BB ligand and its receptor, TNFRSF9/4-1BB, are involved in the antigen presentation process and in the generation of cytotoxic T cells. In direct ELISAs, no cross-reactivity with recombinant human RELT is observed.
Immunogen	This antibody was raised by immunising LOU rats with soluble recombinant 4-1BB Ligand/TNFSF9:Fc fusion protein.
Notes	This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is conditioned on the buyer using the purchased product solely in research conducted by the buyer, excluding contract research or any fee for service research, and the buyer must not (1) use this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; or (c) manufacturing or quality assurance or quality control, and/or (2) sell or transfer this product or its components for resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or <a href="mailto:outlicensing@thermofisher.com">outlicensing@thermofisher.com</a> . This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.

**Product Application Details**

<b>Applications</b>	Western Blot, Flow Cytometry, Block/Neutralize
<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry, Block/Neutralize
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.





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### **Products Related to NBP3-11987AFP680**

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NBP2-26580	Recombinant Mouse 4-1BB Ligand/TNFSF9 Protein
210-TA-005	TNF-alpha [Unconjugated]
1246-4L-025/CF	4-1BB Ligand/TNFSF9 [Unconjugated]
485-MI-100	IFN-gamma [Unconjugated]

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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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