

# Product Datasheet

## 4-1BB Ligand/TNFSF9 Antibody (AT113-2) [PE] NBP3-11987PE

Unit Size: 0.1 ml

Store at 4C in the dark.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP3-11987PE](http://www.novusbio.com/NBP3-11987PE)

Updated 5/1/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP3-11987PE](http://www.novusbio.com/reviews/destination/NBP3-11987PE)



**NBP3-11987PE****4-1BB Ligand/TNFSF9 Antibody (AT113-2) [PE]**

| 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           | PE  |
| Purity              | Protein A purified  |
| Buffer              | PBS   |

| 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.   |

| Product Application Details |  |
|-----------------------------|--|
| Applications                | Western Blot, Flow Cytometry, Block/Neutralize                         |
| Recommended Dilutions       | Western Blot, Flow Cytometry, Block/Neutralize                         |
| Application Notes           | Optimal dilution of this antibody should be experimentally determined. |

**Images**

4-1BB Ligand/TNFSF9 Antibody (AT113-2) [PE] [NBP3-11987PE] - Vial of PE conjugated antibody. PE has two excitation maxima, 498 nm excited by the Blue laser (488 nm) and 565 nm excited by the Yellow-Green laser (561 nm). Both result in emission at 578 nm.





### Novus Biologicals USA

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### Bio-Techne Canada

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### Bio-Techne Ltd

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### General Contact Information

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### Products Related to NBP3-11987PE

---

|                |  |
|----------------|--|
| NBP1-51817PE   | Rat IgG1 Kappa Light Chain Isotype Control (KLH/G1-2-2) [PE] |
| NBP2-26580     | Recombinant Mouse 4-1BB Ligand/TNFSF9 Protein                |
| 210-TA-005     | TNF-alpha [Unconjugated]                                     |
| 1246-4L-025/CF | 4-1BB Ligand/TNFSF9 [Unconjugated]                           |

---

### 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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP3-11987PE](http://www.novusbio.com/reviews/submit/NBP3-11987PE)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

