

# Product Datasheet

## TIM-4 Antibody (5G3) - Chimeric - Azide and BSA Free NBP2-81121-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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Updated 4/19/2023 v.20.1

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**NBP2-81121-0.2mg**

TIM-4 Antibody (5G3) - Chimeric - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	5G3
Preservative	0.02% Proclin 300
Isotype	IgG Kappa
Purity	Protein A purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	91937
Gene Symbol	TIMD4
Species	Mouse
Specificity/Sensitivity	This antibody is specific for murine TIM-4, which unlike other TIM family members, is not expressed on T lymphocytes but rather found on antigen presenting cells such as lymphoid and myeloid DC's and macrophages. TIM-4 has been shown to interact with TIM-1 thereby suggesting a role of TIM-4 in the balance of Th1/Th2 regulation. Additionally TIM-4 has been shown to be a receptor for phosphatidylserine and may play a role in engulfment of apoptotic cells.
Immunogen	This antibody was raised by immunising female Lewis rats (Harlan Sprague-Dawley) with Tim-4:Ig fusion protein in complete Freund's adjuvant.

Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Block/Neutralize
Recommended Dilutions	Western Blot, Flow Cytometry, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Block/Neutralize



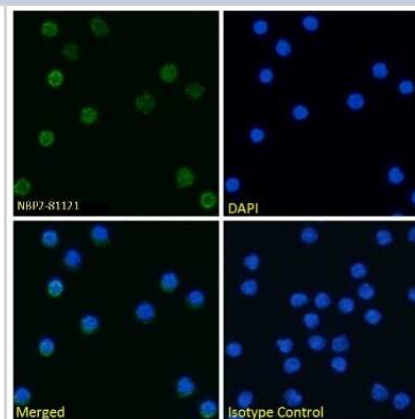
**Application Notes**

This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG1 format, for improved compatibility with existing reagents, assays and techniques. This antibody (Clone 5G3), together with two others (clones 3A1 and 3H11), was originally produced from the subcloned hybridomas; all of these 3 produced mAbs bound specifically to murine TIM-4 and not to any other TIM molecule, as demonstrated by both FACS and ELISA analyses (Rodriguez-Manzanet et al, 2008). This antibody has been used in various FACS analyses, for example, to show that TIM-1 and TIM-4 glycoproteins bind phosphatidylserine and mediate uptake of apoptotic cells (Kobayashi et al, 2007), to underscore the requirement of IL-10 from marginal zone precursor B cell subset for costimulatory blockade-induced transplantation tolerance (Lal et al, 2015), and to uncover a mechanism by which the body adapts to fluctuations in erythrocyte integrity (Theurl et al, 2016). This antibody has also been used in immunohistochemistry to discover a new tissue macrophage subset in the thymus that is dependent on transcription factor NR4A1 for development (Tacke et al, 2015), as well as in immunofluorescence to elucidate the mechanisms that control the heterogeneity of tissue macrophages (A-Gonzalez et al, 2013). In addition, the anti-tumour effects of anti-TIM-4 antibodies have been demonstrated in various murine melanoma and colon adenocarcinoma models (Baghdadi et al, Cancer Immunol. Immunother. 2013; Baghdadi et al, Immunity. 2013).

**Images**

Immunocytochemistry/Immunofluorescence: TIM-4 Antibody (5G3) - Chimeric [NBP2-81121] - Immunofluorescence staining of fixed mouse splenocytes with anti-Tim-4 antibody (5G3) [NBP2-81121].

Immunofluorescence analysis of paraformaldehyde fixed mouse splenocytes permeabilized with 0.15% Triton and stained with the chimeric mouse IgG1 version of 5G3 [NBP2-81121] at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom NBP2-81121, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-unknown specificity antibody followed by Alexa Fluor 488 secondary antibody.





### 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 NBP2-81121-0.2mg

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP1-87569PEP	TIM-4 Recombinant Protein Antigen
210-TA-005	TNF-alpha [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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