

# Product Datasheet

## TIM-4 Antibody (5G3) - Azide and BSA Free NBP2-81122-0.2mg

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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**NBP2-81122-0.2mg**

TIM-4 Antibody (5G3) - 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	IgG1 Kappa
Purity	Protein A purified
Buffer	PBS

Product Description	
Host	Rat
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 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).



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NBP1-75398	Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed)
NBP1-43322-0.5mg	Rat IgG1 Kappa Light Chain Isotype Control (RG1)
NBP1-87569PEP	TIM-4 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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