

Product Datasheet

Tim-4 antibody (orb758818)

Description

Rat monoclonal antibody to Tim-4

Species/Host

Rat

Reactivity

Mouse

Conjugation

Unconjugated

Tested

Blocking, ELISA, FC, IF, IHC, WB

Applications
Immunogen

This antibody was raised by immunising female Lewis rats (Harlan Sprague-Dawley) with Tim-4:Ig fusion protein in complete Freund's adjuvant.

Target

Tim-4

Preservatives

PBS with 0.02% Proclin 300.

Concentration

1 mg/ml

Storage

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

Note

For research use only

Application notes

This antibody (Clone 3A1), together with two others (clones 5G3 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

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Clonality

Monoclonal