

Docket #: S14-270

Anti-mouse TIM-1 mAb 3B3

Dr. Rosemarie DeKruyff and colleagues have generated an agonistic TIM-1 monoclonal antibody (mAb), called TIM-1 mAb 3B3. TIM-1 plays critical roles in regulating immune cell activity and is also involved in allergic response and asthma. To better understand how TIM-1 functions in the immune system the inventors generated the 3B3 mAb. It is a rat IgG2a mAb and can be used for research to study the surface expression and function of TIM-1.

Stage of research

The inventors have shown the 3B3 antibody is specific for TIM-1 and have used it in a variety of *in vitro* and *in vivo* studies to investigate TIM-1 function.

Applications

- Research studies
 - Cell staining- when conjugated to an appropriate fluorochrome, 3B3 can be used to identify TIM-1 expressing cells.
 - 3B3 can be used *in vitro* to activate T cells that express TIM-1, in conjunction with T cell receptor stimulation, or administered *in vivo*.

Advantages

- 3B3 is an agonistic TIM-1 mAb
- 3B3 recognizes both the BALB/c and C57Bl/6 alleles of TIM-1.

Publications

- Umetsu SE, Lee WL, McIntire JJ, Downey L, Sanjanwala B, Akbari O, Berry GJ, Nagumo H, Freeman GJ, Umetsu DT, DeKruyff RH. [TIM-1 induces T cell](#)

[activation and inhibits the development of peripheral tolerance.](#) Nat Immunol.
2005 May;6(5):447-54. Epub 2005 Mar 27.

Innovators

- Rosemarie DeKruyff
- Dale Umetsu
- Gordon Freeman
- Jennifer Jones
- Sarah Umetsu

Licensing Contact

Brenda Martino

Biological Materials Specialist

[Email](#)