

## **Cytek Brand, Tonbo, Introduces Purified Anti-Mouse CD3 (17A2) to Benefit Professionals in the Research Community**

Tonbo, a Cytek brand based in San Diego, California, introduces another excellent product, the Purified Anti-Mouse CD3 (17A2), to significantly benefit professionals in the research community.



**San Diego, California Oct 1, 2022 ([IssueWire.com](https://www.issuewire.com))** - Tonbo, an innovative world-class manufacturer of biotechnology products based in San Diego, California, offers another excellent product to the research community, the Purified Anti-Mouse CD3 (17A2). The 17A2 monoclonal antibody specifically

secures the T-cell receptor-associated CD3 complex expressed on many thymocytes and mature T lymphocytes. Plate-bound 17A2 antibody induces IL-2 production by cultured T cells without accessory cells. The binding of the 17A2 antibody to T cells can be blocked by the anti-CD3e mAb 145-2C11, which indicates that the 17A2 antibody recognizes an epitope of the CD3 epsilon chain.

A little about the Purified Anti-Mouse CD3 (17A2) to [know this purified bulk antibody](#); as per the description on Tonbo's website, the 17A2 antibody reacts with the mouse CD3 complex, comprising CD3 epsilon, CD3 gamma, and CD3 delta. These integral membrane protein chains assemble with other chains of the T cell receptor (TCR) and CD3 zeta chain to form the T cell receptor- CD3 complex. Together with co-receptors CD4 or CD8, the complex recognizes antigens bound to MHC molecules on antigen-presenting cells. Such interactions enable T cell receptor signaling (T cell activation), resulting in several cellular responses. These include proliferation, differentiation, production of cytokines, or activation-induced cell death. CD3 is differentially represented during thymocyte-to-T cell development and on all mature T cells. The 17A2 antibody is a widely employed phenotypic marker for mouse T cells. Additionally, as the CD3e chain within the TCR complex possesses intracellular signaling domains, combining the 17A2 antibody with CD3 can generate cell activation.

Founded in 2011 by a team of immunologists, researchers, and industry leaders, Tonbo, a Cytex brand, is an innovative world-class manufacturer of biotechnology products. The company aims to give back to the research community by providing high-performance, value-oriented products of the highest quality. It aligns itself through disciplined and innovative science with its customers, allowing them to create a unique, value-oriented, technology-driven service. Acquired in November 2021 by Cytex Biosciences, Inc., Tonbo, a Cytex brand, holds to its founding principles while combining its portfolio with Cytex reagents and instruments.

*"At Tonbo, we provide supplies that meet the highest quality and performance standards. Our extensive product line is designed to allow life scientists, clinical researchers, laboratory professionals, and clinicians in basic science research and drug discovery to extend the frontiers of science through a better understanding of cellular function,"* the company's rep stated.

### **About Tonbo, a Cytex brand**

Tonbo, a Cytex brand, is an innovative world-class manufacturer of biotechnology products. It aims to give back to the research community by providing high-performance, value-oriented products of the highest quality to help professionals extend the frontiers of science through a better understanding of cellular function.

*Source: Tonbo, A Cytex Brand*

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