



Absolute Antibody Partners with the Technical University of Denmark to Offer Antibodies against Animal Venom Toxins

Recombinant antibodies in newly engineered formats to further snakebite research and diagnostics

Redcar, UK, February 20, 2020. [Absolute Antibody Ltd.](#), an industry-leading provider of recombinant antibody products and services, today announced a partnership with the Technical University of Denmark to develop engineered recombinant antibodies specific for animal toxins, such as toxins from snake venoms. Antibodies targeting various snake and spider toxins are now commercially available in newly engineered formats, providing valuable research tools for scientists worldwide striving to produce better antivenom treatments.

More than five million people are bitten by snakes worldwide every year, resulting in 100,000 deaths, and many more amputations and other permanent disabilities. The only currently available treatment is antivenom derived from animal plasma, which is expensive and can result in serious adverse reactions. However, snakebite research has been hampered by limited attention and a lack of useful research tools. The World Health Organization (WHO) has therefore declared snakebite envenoming a neglected tropical disease to increase research toward better therapies and diagnostics.

The newly available toxin-specific antibodies are valuable tools for researchers studying snake venoms. Originally developed by the laboratory of Andreas Hougaard Laustsen at the Technical University of Denmark, the antibodies target cytotoxins and phospholipases A₂ from African cobras, latrotoxin from widow spiders, and myotoxin II from lancehead vipers. Under the partnership, Absolute Antibody has engineered the antibodies into new recombinant formats and made them available to a wider scientific audience via an online reagents catalog.

The recombinant antibodies ensure batch-to-batch reproducibility while also opening up new experimental possibilities. For example, the antibodies are now available in a human format for use as serological controls, mouse and rabbit formats for detection applications, and sheep formats to enable better comparisons to traditional antivenom. Scientists can also request the antibodies in custom species, isotypes and subtypes best suited for their research project.

“We’re excited to partner with the Laustsen lab to offer recombinant anti-toxin antibodies,” said Dr. Michael Fiebig, Vice President Product Portfolio & Innovation at Absolute Antibody. “Our collaboration makes these valuable reagents more widely available to the research community and increases the breadth of possible applications through antibody engineering.”

“The importance of having useful and robust research reagents as a scientist cannot be overstated,” said Dr. Andreas Hougaard Laustsen, Associate Professor in the Department of Biotechnology and Biomedicine at the Technical University of Denmark. “I am very pleased to work with Absolute Antibody to jointly develop new toxin-specific antibodies, as increased access to these valuable tools will help toxinologists and antivenom researchers worldwide fight snakebite envenoming.”

For more information, and a full list of currently available antibodies, please visit our website [here](#).

About Absolute Antibody, Ltd.

Absolute Antibody is a rapidly growing company with a vision to make recombinant antibody technology



accessible to all. We offer antibody sequencing, engineering and recombinant production as custom services, as well as a unique catalog of recombinant antibodies, engineered into new and useful formats. [Learn more here.](#)

About Technical University of Denmark

DTU is recognized internationally as a leading university in the areas of technical and natural sciences, renowned for their business-oriented approach, focus on sustainability and study environment. The university was founded in 1829, and is now ranked as one of the foremost technical universities in Europe, continuing to set new records in the number of publications, and increase and develop partnerships with industry, and assignments accomplished by DTU's scientific advice. [Learn more here.](#)

Information on the Laustsen Lab can be found here: <https://tropicalpharmacology.com>

Contact:

Lisa Merolla

Director of Marketing

+1 617-377-4057 (extension 610)

l.merolla@absoluteantibody.com

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