Universal system for Fluorescently-Labelling Antibodies

THE EXISTING PROBLEM OR ISSUE
The majority of methods used to label antibodies luminescently use biotin/streptavidin conjugation methods and a range of different luminescent compounds and dyes.

Our Luminescence-Activating Linker Antibody Binding Protein (LA-LABP) biomolecule functionalises antibodies (immunoglobulins) with luminescent chelates without the need for complicated chemical conjugation procedures, making this technique more flexible, cheaper and faster to use than other procedures.

OUR SOLUTION
This agent introduces a new dimension of flexibility to the use of antibodies in numerous applications by converting any non-luminescent antibody into a luminescent antibody in seconds.

It allows for the attachment of multiple fluorophores or luminophores to antibodies in a controlled and facile manner such that their avidity and specificity of action are retained.

APPLICATIONS
- Immunodetection,
- Biomarker(s)/biotracking,
- Simultaneous specific pathogen capture and visualisation,
- Labelling and detection,
- Bio-imaging and flow cytometry

ADVANTAGES | BENEFITS
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Does not require modification of antibody for luminescent binding. | Easier to prepare and isolate.
 | Does not use complex conjugation procedures.
 | Allows antibody to retain form and function.

Imparts luminescence directly to antibodies. | Allows for facile antibody labelling.
 | Does not require multiple labels for luminescence of antibody.
 | Much faster preparation of luminescent antibodies than conventional procedures.

INVENTORS
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INTELLECTUAL PROPERTY POSITION
Australian Provisional Patent: Luminescent biomolecular complex and use thereof

WOULD YOU LIKE TO KNOW MORE?
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