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Passive immunization with hyperimmune egg-yolk IgY as ...<https://www.cambridge.org/core/journals/animal...>

Nov 16, 2015 · The term 'IgY technology' came into use in 1996 to describe the production and use of IgY (Schade and Hlinak, 1996). In 1996, a workshop on the Production of Avian Antibodies, organized by the European Centre for the Validation of Alternative Methods, recommended the use of IgY technology as an alternative to mammalian antibody production.

Cited by: 25

Author: U. Gadde, T. Rathinam, Hyun S. Lillehoj

Publish Year: 2015

Evaluation of IgY capture ELISA for sensitive detection of ...<https://europepmc.org/article/MED/23454246>

Feb 20, 2013 · Immunoglobulin Y (IgY) is the avian equivalent of mammalian IgG which does not have any affinity to SpA. In the present study we report that using chicken egg yolk IgY over mammalian IgG as capture antibody prevents both soluble and surface bound protein A from causing false positives quantified by chicken anti-protein A antibodies.

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Author: Prakash Kudumala Reddy, Aravind Shekar, ...

Publish Year: 2013

Generation of High-Affinity Chicken Single-Chain Fv ...<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1472335>

Birds are increasingly used in biotechnology research as a model animal for polyclonal antibody generation due, in part, to the convenience of yolk antibody (immunoglobulin Y [IgY]) monitoring, but also because chickens are cheaply maintained and often respond strongly to ...

Cited by: 73

Author: William J. J. Finlay, Ian Shaw, Joanna P. Re ...

Publish Year: 2006

(PDF) Anti-HER2 IgY antibody-functionalized single-walled ...<https://www.academia.edu/14864778/Anti-HER2-IgY...>

Atomic force microscopy (AFM)The SWNTs before and after conjugation with anti-HER2 IgY antibody were imaged with a tapping mode Nano-scope IIIa atomic force microscope (Veeco, Chadds Ford, PA). In order to image the SWNTs, 5 µl of the prepared solutions were deposited on freshly cleaved mica.

Streamlined human antibody generation and optimization by ...<https://www.nature.com/articles/s41423-020-0440-9>

May 26, 2020 · We previously reported a rapid method to generate mAbs using an avian-derived B cell line. 22,23,24 Avian immunoglobulin loci contain only a ...

Overlooked benefits of using polyclonal antibodies ...<https://www.future-science.com/doi/10.2144/btn-2018-0065>

Aug 09, 2018 · Overlooked benefits of using polyclonal antibodies. The benefits of polyclonal antibodies as tools for assay-specific target discovery and detection are numerous. As the future of basic research, diagnostics and biomarker discovery is dependent on high-quality reproducible data, there is a need to understand the importance and benefits of these ...

Chitosan-Alginate Microcapsules for Oral Delivery of Egg ...<https://pubs.acs.org/doi/abs/10.1021/jf062900q>

Mar 16, 2007 · Chitosan-alginate microcapsules were evaluated as a method of oral delivery of IgY antibodies. Physical characteristics, encapsulation efficiency (EE%), the loading capacity for IgY (IgY loading percentage, %, w/w of microcapsules), gastro-resistance, and release characteristics of these microcapsules in vitro under varying pH were investigated.

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IgY technology: Methods of developing and evaluating avian immunoglobulins for the *in vitro* detection of biomolecules

Karachaliou CE *et al.* Aspects of the IgY technology

Chrysoula-Evangelia Karachaliou, Vyronia Vassilikopoulou, Evangelia Livaniou

Abstract

The term "IgY technology" was introduced in the literature in the mid 1990's to describe a procedure involving immunization of avian species, mainly laying hens, consequent isolation of the polyclonal IgYs from the "immune" egg yolk (thus avoiding bleeding and animal stress) and application of the IgYs to various fields of medicine and biotechnology. The present article will deal with specific aspects of the IgY

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Author: Ferreira Junior A, Santos Jp, Santos ...

Publish Year: 2018

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