

AM26353BT-N**Monoclonal Antibody to Chicken IgG / Chicken IgY - Biotin****Alternate names:**

Chicken Immunoglobulin G, Chicken Immunoglobulin Y

Quantity:

50 µg

Concentration:

0.1 mg/ml

Background:

The yolk of eggs laid by immunized chickens has been recognized as an excellent source of polyclonal antibodies (pAb). Specific antibodies produced in chickens offer several important advantages over producing antibodies in other mammals. Because a single egg contains as much antibody as an average bleed from a rabbit, this simple, non-invasive approach presents an appealing alternative to conventional pAb production methods. Purification of chicken egg yolk immunoglobulin Y (IgY), the 150 kDa IgG homolog, does not require animal bleeding. In addition, the eggs from immunized chickens provide a continual, daily source of pAb, and this convenient approach offers greater compatibility with animal protection regulations. Due to the phylogenetic distance between birds and mammals, there is greater potential of producing a higher percentage of specific antibody against mammalian antigens when using chickens. Highly conserved mammalian proteins sometimes fail to illicit a humoral response in animals, such as rabbits, that are traditionally used for generating pAb. Non-specific binding and need for cross-species immunoabsorptions is eliminated since chicken IgY does not cross-react with mammalian IgG and does not bind bacterial or mammalian Fc receptors. There are well defined structural differences of IgY-type immunoglobulins and the IgG of mammals. That includes the molar mass of the heavy chains of the immunoglobulins. The IgY-type immunoglobulins are much less flexible than IgG. Also, the structures of the Fc part of the immunoglobulin isotypes IgY and IgG are different.

Host / Isotype:

Mouse / IgG1

Clone:

7C2

Format:

State: Liquid 0.2 µm filtered Ig fraction
Purification: Protein G Chromatography
Buffer System: PBS
Preservatives: 0.02% Sodium Azide
Stabilizers: 0.1% BSA
Label: Biotin

Applications:**Immunoassays.****Western blot (non-reduced):** The typical starting working dilution is 1/10.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

The monoclonal antibody 7C2 can be used during various purification steps of IgY.

Species Reactivity:**Tested:** Chicken, Duck.

Storage:

Store undiluted at 2-8°C.

DO NOT FREEZE!

Shelf life: one year from despatch.