

**bs-0432R-HRP****[ Secondary Antibodies ]**

www.bioss.com.cn

sales@bioss.com.cn

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400-901-9800

**Rabbit Anti-Chicken IgY, HRP conjugated****— DATASHEET —**

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| <b>Host:</b> Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Isotype:</b> IgG | <b>Applications:</b> <b>WB</b> (1:500-2000)<br><b>IHC-P</b> (1:100-500)<br><b>IHC-F</b> (1:100-500)<br><b>ELISA</b> (1:500-1000) |
| <b>Clonality:</b> Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     | <b>Reactivity:</b> Chicken                                                                                                       |
| <b>Target:</b> Rabbit Anti-Chicken IgY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                                                                                                                                  |
| <b>Purification:</b> affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                                                                  |
| <b>Concentration:</b> 1.0 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                                                                                                                                  |
| <b>Storage:</b> 10 mM TBS (pH=7.4) with 1% BSA, 0.03% Proclin300 and 50% glycerol.<br>Store at -20°C for one year. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                                                                                                                                  |
| <b>Background:</b> In chickens, immunoglobulin Y is the functional equivalent to Immunoglobulin G (IgG). Like IgG, it is composed of two light and two heavy chains. Structurally, these two types of immunoglobulin differ primarily in the heavy chains, which in IgY have a molecular mass of about 65,100 atomic mass units (amu), and are thus larger than in IgG. The light chains in IgY, with a molar mass of about 18,700 amu, are somewhat smaller than the light chains in IgG. The molar mass of IgY thus amounts to about 167,000 amu. The steric flexibility of the IgY molecule is less than that of IgG. Functionally, IgY is partially comparable to Immunoglobulin E (IgE), as well as to IgG. However, in contrast to IgG, IgY does not bind to Protein A, to Protein G, or to cellular Fc receptors. Furthermore, IgY does not activate the complement system. The name Immunoglobulin Y was suggested in 1969 by G.A. Leslie and L.W. Clem, after they were able to show differences between the immunoglobulins found in chicken eggs, and immunoglobulin G. Other synonymous names are Chicken IgG, Egg Yolk IgG, and 7S-IgG. |                     |                                                                                                                                  |

**— SELECTED CITATIONS —**

- **[IF=5.9]** Rui Bai. et al. Evaluation of the immunoprotective potential of recombinant EtMIF as a subunit vaccine candidate against Eimeria tenella infection in chickens. FRONT IMMUNOL. 2025 Jul;16: ELISA ;Chicken. 40718479
- **[IF=4.02]** Xu et al. A Critical Role of Bacterioferritin in Salmonella pullorum-Induced IFN- $\beta$  Expression in DF-1 Cells. (2016) Front.Microbiol. 7:20 WB ;Salmonella. 26870001
- **[IF=3.8]** Boxing Liu. et al. Fatty acid-binding protein is essential for molting and male mating in Dermanyssus gallinae and confers protection as a vaccine antigen. PEST MANAG SCI. 2026 Apr;: ELISA ;Chicken. 42014963
- **[IF=2.7]** Yusong Du. et al. Soybean  $\beta$ -Conglycinin Inhibits Broiler Growth and Nutrient Utilization by Inducing Allergic and Inflammatory Responses, Impairing Intestinal Barrier Integrity and Altering Cecal Microbiota. ANIMALS. 2025 Jan;15(12):1701 ELISA ;Chicken. 40564253
- **[IF=2.3]** Yan Ma. et al. Simvastatin Combined with CpG Enhances the Immunogenicity of the H9N2 Inactivated Vaccine. VET SCI. 2025 Sep;12(9):855 ELISA ;Chicken. 41012780