

SM2273P**Monoclonal Antibody to Chicken IgG / Chicken IgY (heavy chain)
- Purified**

Alternate names:	Chicken Immunoglobulin G, Chicken Immunoglobulin Y
Quantity:	0.25 mg
Concentration:	0.5 mg/ml
Background:	The duck IgY molecule, consisting of two heavy (H) and two light (L) chains, has been categorized as the 7.8S full-length IgY form and the 5.7S truncated IgY(-Fc) form. Studies have shown that the IgY(-Fc) molecule possesses the H chain Cu1 and Cu2 constant domains, but is lacking the Cu3 and Cu4 constant region terminal domains, all four of which are present in the full-length IgY molecule. Thus the structure of the IgY(-Fc) molecule resembles that of a F(ab)2 fragment of IgY.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	AM03095PU-N
Clone:	16C7
Immunogen:	Purified Pekin duck yolk IgY. Spleen cells from immunised Balb/c mice were fused with cells of the SP2/0 mouse myeloma cell line.
Format:	State: Liquid purified IgG Purification: Affinity chromatography on Protein G Buffer System: PBS containing 0.09% Sodium Azide
Applications:	Flow Cytometry. ELISA. Western Blot under non-reducing conditions. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises both the IgY and IgY(-Fc) heavy chain molecules. This antibody also detects IgY heavy chain in Mallard ducks, goose and swan. This antibody detects bands of approximately 118kDa and 178-200kDa in Pekin duck cell lysates under nonreducing conditions in Western blotting. Species: Duck. Does not react with Chicken. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Magor KE, Higgins DA, Middleton DL, Warr GW. One gene encodes the heavy chains for three different forms of IgY in the duck. J Immunol. 1994 Dec 15;153(12):5549-55. PubMed PMID: 7989756. 2. Higgins DA, Warr GW. Duck immunoglobulins: structure, functions and molecular genetics. Avian Pathol. 1993 Jun;22(2):211-36. PubMed PMID: 18671013.