

**SHEEP IgG whole molecule (BULK ORDER) - 013-0102**
**Code:** 013-0102

**Size:** 25 mg

**Product Description:** SHEEP IgG whole molecule (BULK ORDER) - 013-0102

**Concentration:** 10.0 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Lyophilized

<b>Label</b>	Unconjugated
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Reconstitution Volume</b>	2.5 mL
<b>Reconstitution Buffer</b>	Restore with deionized water (or equivalent)
<b>Preservative</b>	0.01% (w/v) Sodium Azide
<b>Storage Condition</b>	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Sheep IgG whole molecule is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Synonyms</b>	Sheep Immunoglobulin Gamma, Immunoglobulin G
<b>Application Note</b>	Sheep IgG whole molecule can be utilized as a control or standard reagent in Western Blotting and ELISA experiments. Sheep IgG whole molecule is stable at 4° C prior to restoration. It is recommended to aliquot restored Sheep IgG whole molecule and store at -20° C for extended storage and to prevent repeated freeze-thaw cycles.
<b>Background</b>	Secreted as part of the adaptive immune response by plasma B cells, Sheep immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the complement cascade, and opsinization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both heavy and light chains of the antibody molecule are present.
<b>Purity And Specificity</b>	Sheep IgG whole molecule was prepared from normal serum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Sheep IgG whole molecule was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Sheep IgG and anti-Sheep Serum.
<b>Assay Dilutions</b>	User Optimized
<b>ELISA</b>	User Optimized
<b>Western Blot</b>	User Optimized
<b>Immunohistochemistry</b>	User Optimized
<b>Other Assays</b>	User Optimized
<b>Expiration</b>	Expiration date is one (1) year from date of opening.

**Related Products**

001-0102	BOVINE IgG whole molecule - 001-0102
005-0102	GOAT IgG whole molecule - 005-0102
010-0102	MOUSE IgG whole molecule - 010-0102
113-7102	Anti-SHEEP IgG (H&L) (DONKEY) Antibody - 113-7102

**Images**

1	SDS-Page of Sheep IgG Lane 1: Sheep IgG Non-Reduced Lane 2: Sheep IgG Reduced Load: 1.0 ug per lane Non-Reduced Predicted/Observed Size: 160 kDa/160 kDa Reduced Predicted/Observed Size: 28 and 55 kDa/28 and 55 kDa
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## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.