

Product Data Sheet

**Rat IgM isotype controls and conjugates**

<input type="checkbox"/> #20005-2-1	Rat IgM, unlabeled, isotype control	<b>Size:</b> 0.1 mg
<input type="checkbox"/> # 20005-21-B	Rat IgM-Biotin conjugate, isotype control	<b>Size:</b> 100 ug
<input type="checkbox"/> # 20005-21-F	Rat IgM-FITC conjugate, isotype control	<b>Size:</b> 100 ug
<input type="checkbox"/> # 20005-21-HP	Rat IgM-HRP conjugate, isotype control	<b>Size:</b> 100 ug
<input type="checkbox"/> # 20005-21-PE	Rat IgM-PE conjugate, isotype control	<b>Size:</b> 25 tests

**Description**

Immunoglobulin M is the largest antibody isotype and the first to be secreted against an initial exposure to antigen. IgM is predominantly produced in the spleen. Formed from covalently linking 5 immunoglobulins together, the approximate molecular weight of IgM is 900kDa and possesses 10 binding sites (though due to the size of most antigens, not all sites are capable of binding at once). Due to this large size, IgM is typically isolated to the serum.

Highly purified preparation of Rat IgMk is supplied as unlabeled, HRP-, Biotin, FITC, and PE, Cy5 conjugates for use as isotype control or negative control for all mice monoclonal with IgM isotype.

**Form and Storage**

**Cat# 20005-21, unlabeled IgM**

IgM is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (100 ug) or **liquid** form (1 mg/ml or see lot sp. concn on the vial). Reconstitute powder in PBS at 100 ug/ml or as desired. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw. Controls are typically tested at 0.1-1 ug/ml depending upon the application.

**Cat# 20005-21-B, Biotin-conjugate**

Purified Rat IgM was coupled to Biotin using ADI Biotinylation kit # 80300 at F/P ratio ~10-20:1. The antibody is supplied in PBS, pH 7.4, 1 % BSA in either **lyophilized** (50 tests per vial) or **liquid** form (50 tests/100 ul or see lot sp. concn on the vial). Reconstitute powder in PBS in 100 ul or more. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw. No preservatives have been added. Sodium azide (0.1%) or merthiolate (0.05%) can be added if necessary to prevent bacterial growth.

Suggested conjugate dilutions are 1:5,000-1:30,000 ELISA. For other applications use as needed.

**Cat# 20005-21-F, FITC-conjugate**

Purified Rat IgM was coupled to FITC at F/P ratio ~4-5:1. The antibody is supplied in PBS, pH 7.4, azide in either **lyophilized** (50 tests per vial) or **liquid** form (50 tests/500 ul or ~50 ug/vial). Reconstitute powder in PBS in 0.5 ml or as desired. Store at 4oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:50-1:500 for immunofluorescence or as optimized for a given tests.

**Color: Green**

**Absorption:** 495 nm

**Emission:** 528 nm

**Cat# 20005-21-HP, HRP-conjugate**

Purified Rat IgM was coupled to HRP (RZ>3.0) using periodate method. The molar enzyme to protein (E/P) ratio = 4.0. The antibody is supplied in stabilizing buffer, 0.1% prolcin-300 as preservative in either **lyophilized** (50 tests per vial) or **liquid** form (50 tests/100 ul or approx. 50 ug/100ul). Reconstitute powder in PBS in 0.1 ml. Store at 4oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:1,000-1:10,000 ELISA, 1:1K-1:5K for western, and 1:200-1:1000 (IHC).

**Cat# 20005-21-PE, R-phycoerythrin (R-PE) conjugate**

Purified Rat IgM was coupled to R-PE and supplied in PBS, pH 7.4, azide in either **lyophilized** (50 tests per vial) or **liquid** form (50 tests/500 ul or see lot sp. concn on the vial). Reconstitute powder in PBS in 500 ul water or as desired. Store at -4oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 10 ul/test or 1 x 10<sup>6</sup> cell for Flow cytometry or as optimized for a given tests.

**Color: Red**

**Absorption:** 488 nm

**Emission:** 575 nm

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**Related items:**

20005-1	Rat IgG, purified (Whole, non-immune) (isotype control)
20005-10	Rat IgG, purified (Whole, non-immune) (isotype control)
20005-11	Rat IgG1 unconjugated (isotype control)
20005-12	Rat IgG2a unconjugated (isotype control)
20005-1-200	Rat IgG purified (isotype control)
20005-1-FAB2	Rat IgG F(ab') <sub>2</sub> fragment, purified (isotype control)
20005-3-1	Rat IgA (non-immune), purified (isotype control)
20005-5	Rat IgG, purified (Isotype control)
20005-AS-1	Rat IgG-Agarose conjugate (aff matrix)
20005-B	Rat IgG-Biotin conjugate (isotype control) (Isotype control)
20005-F	Rat IgG-FITC conjugate (isotype control) (Isotype control)
20005-HP	Rat IgG-HRP conjugate (isotype control) (Isotype control)
20005-PE	Rat IgG-PE conjugate (isotype control) (Isotype control)

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