ALPHA DIAGNOSTIC INTERNATIONAL

LIFE TECH Life Technologies™ Your Molecular & Cell Technology Partner

Product Data Sheet

# Rat IgG2a Isotype Control and Conjugates

| | | |
|---|---|---|
| **Cat#** 20005-12 | Rat IgG2a, Unlabeled | **Size**: 100 ug |
| **Cat#** 20005-12-B | Rat IgG2a-Biotin Conjugate | **Size**: 100 ug |
| **Cat#** 20005-12-F | Rat IgG2a-FITC Conjugate | **Size**: 100 ug |
| **Cat#** 20005-12-HP | Rat IgG2a-HRP Conjugate | **Size**: 100 ug |
| **Cat#** 20005-12-PC5 | Rat IgG2a-PE-Cy5.5 Conjugate | **Size**: 25 tests |
| **Cat#** 20005-12-PE | Rat IgG2a-PE-PE Conjugate | **Size**: 25 tests |

Rat IgG2a kappa is a monoclonal antibody specific for Keyhole limpet hemocyanin (KLH). The IgG2a was purified by a combination of column chromatography (Sephadex, and DEAE-ion exchange columns) and immunoaffinity chromatography. The resulting preparation was judged to be >96% pure by immuno electrophoresis (IEP) and SDS-PAGE. It is supplied as ublabeled or coupled to biotin, HRP, FITC, PE, Cy5 etc.

## Cat# 20005-12, unlabeled

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (100 tests) or **liquid** form (100 tests/100 ul). Antibody concn is approx. 1 ug per test. Reconstitute powder in PBS. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

## Cat# 20005-12-B, Biotin-conjugate

Purified antibody was coupled to Biotin using Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC**)** at F/P ratio ~10-20:1. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** (0.1 mg) or **liquid** form (0.1 mg/0.1 ml) or see lot sp. concn on the vial). Reconstitute powder in PBS in 0.1 ml to prepare 1 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,000-1:30,000 ELISA, 1:2K-1:10K for western.

## Cat# 20005-12-F, FITC-conjugate

Purified antibody was coupled to FITC at F/P ratio ~5. The antibody is supplied (100 tests) in PBS, pH 7.4, 1% BSA (see lot sp concn on the vial) or in powder form. **Reconstitute** powder in PBS**.** Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze/thaw.

Suggested conjugate dilutions are 1:20-1:500 for immunofluorescence. Or 1 test equivalent of antibody per million cells.
**Absorption** @495 nm **Emission** @528 nm

## Cat# 20005-12-HP, HRP-conjugate

Purified antibody 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** (0.5 ml) or **liquid** form (0.5-0.5 mg/ml). Reconstitute powder in PBS in 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# 20005-12-PE, PE-conjugate

The purified antibody was coupled to R-Phycoerythrin (R-PE) (Molecular Weight 240,000 daltons) from seaweed using proprietary methods (A565nm/A280nm ~3-4).

**Absorption** @490 nm, 545 nm and 565 nm
**Emission** Wavelength: 580 nm

The conjugate is provided in PBS, pH 7.5, containing 0.1% bovine serum albumin, (BSA) 0.05% sodium azide and stabilizing agent). DO NOT FREEZE. The product should be stored at 4oC and is stable for a minimum of 1 year. Do not store diluted solutions.

Recommended usage 1 test equivalent of antibody per million cells for Flow cytometry or FACS. Due to many experimental variations, optimum concn must be determined for a given applications

## Cat# 20005-12-PC5, PE-Cy5.5 conjugate

Purified antibody was coupled to PE-Cy5.5 (Cyanine 5.29-OSu) (Molecular Weight 975 daltons) at F/P ratio ~6:1. The antibody is supplied in PBS, pH 7.4, 0.5% BSA, IgG, and 0.05% azide in either **lyophilized** or **liquid** form (see lot specific conc on the vial). Reconstitute powder in PBS. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

**Suggested applications**: Suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays

**Suggested conjugate dilutions** are 1:100-1:500 for immunofluorescence. Users must optimize the dilutions for a given technique. Or 1 test equivalent of antibody per million cells.
**Absorption** Wavelength: 650 nm
**Emission** Wavelength: 667 nm

**Related Material available for ADI**

20005-12 110218A

**India Contact**:
**Life Technologies (India) Pvt. Ltd.**
306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com