



# DATA SHEET

## Product Data Sheet

### Anti-Mouse IgA (Alpha-chain specific)-Antibodies and conjugates

<b>Cat#</b> 40019	Goat Anti-Mouse IgA (Alpha sp), unlabeled	<b>Size:</b> 0.5 mg	<b>Form:</b> Liquid; Powder
<b>Cat#</b> 40020	Goat Anti-Mouse IgA (Alpha)-HRP conjugate	<b>Size:</b> 1 ml	<b>Form:</b> Liquid; Powder
<b>Cat#</b> 40021	Goat Anti-Mouse IgA (Alpha)-FITC labeled	<b>Size:</b> 0.5 ml	<b>Form:</b> Liquid; Powder
<b>Cat#</b> 40050	Goat Anti-Mouse IgA (Alpha)-AP labeled	<b>Size:</b> 0.5 ml	<b>Form:</b> Liquid; Powder

#### Description

Goats were immunized with antigen grade mouse IgA. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography. Antibodies were made specific for alpha-chain by removing any antibodies crossreactive with other Ig's. Specificity has been tested using IEP, immunodiffusion, and ELISA. Purified antibodies react with mouse IgA with minimal reactivity with mouse IgG and IgM. The antibody may recognize other species IgA's that have common Alpha chains. However, no antibody is detected to other serum proteins. Purified antibodies are supplied as unlabeled, HRP-, Biotin, FITC, and AP conjugates.

#### Form and Storage

##### Cat# 40019, unlabeled

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (0.5 mg) or **liquid** form (0.5 mg/0.5 ml). Reconstitute powder in PBS in 0.5 ml to prepare 1 mg/ml solution. Store at -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

##### Cat# 40020, 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% proclin-300 as preservative in either **lyophilized** (1 ml) or **liquid** form (1 ml). Reconstitute powder in PBS in 1 ml. Store at 4°C 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# 40021, FITC-conjugate

Purified anti-Mouse IgA (Alpha-chain sp) antibody was coupled to FITC at F/P ratio ~4-5:1. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** (0.5 ml) or **liquid** form (0.5 mg/0.5 ml). Reconstitute powder in PBS in 0.5 ml to prepare 1 mg/ml solution. Store at -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:200-1:2000 for immunofluorescence.

**Absorption Wavelength:** 495 nm

**Emission Wavelength:** 528 nm

##### Cat# 40050, AP-conjugate

The conjugate is provided at ~0.5-1 mg/ml as liquid in a stabilizing buffer (50 mM HEPES pH 7.1, 0.1 M NaCl, 1 mM MgCl<sub>2</sub>, 0.1 mM ZnCl<sub>2</sub>, pH 7.5, containing 0.2% bovine serum albumin, 0.05% sodium azide). The product should be **stored at 4°C** and is stable for a minimum of 1 year. Do not store diluted solutions.

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

#### Recommended Working Dilution for ELISA

Working dilution for the specific application should be determined by the investigator to obtain the best conditions. Working solution should be prepared immediately before use and diluted solution should be discarded.

All products are for In vitro research use only.

#### Related Material available for ADI

##### Mouse IgA, IgM, and IgE ELISA kits

Anti-Mouse IgA (Alpha-chain sp), IgA, IgM, IgE antibodies and conjugates

ELISA kits for the detection of mouse Antibodies

40019, 40020, 40021, 400150

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