

## Technical Data Sheet

**Biotin Mouse Anti-Mouse IgG2a [b]****Product Information**

<b>Material Number:</b>	553504
<b>Alternate Name:</b>	Igh-1 [b]
<b>Size:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	5.7
<b>Immunogen:</b>	Not Reported
<b>Isotype:</b>	Mouse (BALB/c) IgG3, $\kappa$
<b>Reactivity:</b>	QC Testing: Mouse
<b>Storage Buffer:</b>	Aqueous buffered solution containing protein stabilizer and $\leq 0.09\%$ sodium azide.

**Description**

This antibody reacts specifically with mouse IgG2a of *Igh-C [b]* haplotype (e.g., C57BL/6, C57BL/10, NOD, SJL). It has been reported not to react with IgG2a of the *a, c, d, e, f, g, h, j, n, o, or p* haplotypes (e.g., A, AKR, BALB/c, C3H/He, C58, CBA, DBA/1, DBA/2, NZB, SWR). Molecular genetic analyses suggest that the Igh-1 [b] allele, which encodes IgG2a [b], is derived from a locus found in several wild mouse subspecies, but not domestic mice, which encodes the IgG2c isotype.

This antibody is routinely tested by direct ELISA and flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

**Application Notes****Application**

ELISA Detection	Routinely Tested
Flow cytometry	Routinely Tested

**Suggested Companion Products**

Catalog Number	Name	Size	Clone
554057	Avidin FITC	0.5 mg	(none)
559805	Biotin Mouse IgG3, $\kappa$ Isotype Control	0.25 mg	A112-3

**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

**References**

Huang CM, Parsons M, Oi VT, Huang HJ, Herzenberg LA. Genetic characterization of mouse immunoglobulin allotypic determinants (allotopes) defined by monoclonal antibodies. *Immunogenetics*. 1983; 18(4):311-321. (Biology)

Martin RM, Silva A, Lew AM. The Igh-1 sequence of the non-obese diabetic (NOD) mouse assigns it to the IgG2c isotype. *Immunogenetics*. 1997; 46(2):167-168. (Biology)

Morgado MG, Cam P, Gris-Liebe C, Cazenave PA, Jouvin-Marche E. Further evidence that BALB/c and C57BL/6 gamma 2a genes originate from two distinct isotypes. *EMBO J*. 1989; 8(11):3245-3251. (Biology)

Parsons M, Oi VT, Huang CM, Herzenberg LA. Structural characterization of mouse immunoglobulin allotypic determinants (allotopes) defined by monoclonal antibodies. *Immunogenetics*. 1983; 18(4):323-334. (Biology)

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