Technical Data Sheet Purified Mouse Anti-Mouse IgG1[a]

Product Information	
Material Number:	553499
Alternate Name:	Igh-4a
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	10.9
Immunogen:	Not reported
Isotype:	Mouse (SJL) IgG2a, ĸ
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and $\leq 0.09\%$ sodium azide.

Description

This antibody is specific for mouse IgG1 of the Igh-C[a] and the c, d, e, f, g, h, n, o, and p haplotypes (e.g. BALB/c, C58, A, AKR, CBA, C3H, DBA/1, DBA/2, NZB, SWR). It has been reported not to react with IgG1 of the Igh-C[b] haplotype (e.g. C57BL/6, C57BL/10, SJL).

Preparation and Storage

Store undiluted at 4° C.

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

Application Notes							
A	Application						
	ELISA	Routinely Tested					

Recommended Assay Procedure:

Indirect ELISA: Purified mouse IgG1 (a allotype) [MN 557273] may be used as the antigen (e.g coating plates). Purified anti-mouse IgG1[a] allotype specific antibody [MN 553499] may be used at ~ 2 µg/ml followed by biotinylated anti-mouse IgG2a [b] allotype specific antibody [MN 553504] at ~ 2 µg/ml and avidin-HRP [MN 554058] for detection.

Suggested Companion Products

Catalog Number Name		Size	Clone	
557273	Purified Mouse IgG1, κ Isotype Control	0.5 mg	MOPC-31C	
553504	Biotin Mouse Anti-Mouse IgG2a [b]	0.5 mg	5.7	
554058	HRP Avidin	1.0 ml	(none)	

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
- 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.
- 4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Huang CM, Huang HJ, Lee SC. Detection of immunoglobulin heavy chain IgG3 polymorphism in wild mice with xenogeneic monoclonal antibodies. Immunogenetics. 1984; 20(5):565-575.(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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