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, κ
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤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

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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