

Technical Data Sheet

Biotin Rat Anti-Mouse IgG2a

Product Information

Material Number:	550332
Size:	1.0 ml
Concentration:	250 µg/ml
Clone:	R19-15
Immunogen:	Pooled BALB/c and C57BL/6 mouse Ig
Isotype:	Rat (LOU) IgG1, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing BSA, goat serum, and ≤0.09% sodium azide.

Description

The R19-15 antibody recognizes an epitope in the CH3 domain of mouse IgG2a, with strong reactivity to the *Igh-1[a]* allotype and weaker reactivity to *Igh-1[b]*. It does not react with other Ig isotypes. 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.

Preparation and Storage

Store undiluted at 4°C.

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.

Application Notes

Application

ELISA	Routinely Tested
Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development
Immunohistochemistry-formalin (antigen retrieval required)	Tested During Development
Immunohistochemistry-zinc-fixed	Tested During Development

Recommended Assay Procedure:

This antibody conjugate has been tested as a detecting reagent in ELISA (~2 µg/ml) and by flow cytometry to assure purity and reactivity.

For immunohistochemical staining on acetone-fixed frozen sections, a dilution range of 1:25 - 1:100 is suggested.

Suggested Companion Products

Catalog Number	Name	Size	Clone
550880	DAB Substrate Kit	500 tests	(none)
550946	Streptavidin HRP	50 ml	(none)
559148	Antibody Diluent for IHC	125 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. This antibody has been developed for the immunohistochemistry application. However, a routine immunohistochemistry test is not performed on every lot. Researchers are encouraged to titrate the reagent for optimal performance.
5. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

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)

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