

Technical Data Sheet

HRP Rat Anti-Mouse IgG2a

Product Information

Material Number:	553391
Size:	1 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 and ProClin™ 150 as preservative.

Description

The R19-15 antibody recognizes an epitope in the CH3 domain of mouse IgG2a, with strong reactivity to the *Igh-I[a]* allotype and weaker reactivity to *Igh-I[b]*. It does not react with other Ig isotypes. Molecular genetic analyses suggest that the *Igh-I[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 and protected from prolonged exposure to light. Do not freeze.

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

The antibody was conjugated with HRP under optimum conditions, and unconjugated antibody and free HRP were removed.

Application Notes

Application

ELISA	Routinely Tested
-------	------------------

Recommended Assay Procedure:

ELISA: For sandwich mouse IgG2a ELISA, HRP-conjugated R19-15 mAb is optimal for detection with purified anti-mouse IgG2a R11-89 mAb (Cat. No. 553446) for capture. Investigators are encouraged to titrate with a suggested starting dilution of 1:1000. This pair of anti-mouse IgG2a mAbs can effectively quantitate mouse IgG2a of these mouse *Igh-C* allotypes, in order of sensitivity from highest to lowest: *e*, *a*, *j*, and *b*.

Warning: HRP Rat Anti-Mouse IgG2a contains 0.004% (w/w) of a CMIT/MIT mixture (3:1), which is a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1).

Hazard statements

May cause an allergic skin reaction.

Precautionary statements

Wear protective gloves / eye protection.

Wear protective clothing.

Avoid breathing mist/vapours/spray.

If skin irritation or rash occurs: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553446	Purified Rat Anti-Mouse IgG2a	0.5 mg	R11-89
550332	Biotin Rat Anti-Mouse IgG2a	1 mL	R19-15

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. ProClin is a trademark of Rohm and Haas Company.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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)

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	866.979.9408	32.2.400.98.95	0120.8555.90	65.6861.0633	55.11.5185.9995

For country contact information, visit bdbiosciences.com/contact

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2015 BD

553391 Rev. 18

