

Technical Data Sheet

Purified Rat Anti-Mouse IgG2a

Product Information

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| Material Number: | 553446 |
| Size: | 0.5 mg |
| Concentration: | 0.5 mg/ml |
| Clone: | R11-89 |
| Immunogen: | Pooled mouse Ig |
| Isotype: | Rat (LOU) IgG1, κ |
| Reactivity: | QC Testing: Mouse |
| Storage Buffer: | Aqueous buffered solution containing $\leq 0.09\%$ sodium azide. |

Description

The R11-89 antibody recognizes 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

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

Store undiluted at 4°C.

Application Notes

Application

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| ELISA Capture | Routinely Tested |
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Recommended Assay Procedure:

For the sandwich IgG2a ELISA, R11-89 mAb is optimal for capture with biotin-, AKP-, or HRP-conjugated anti-mouse IgG2a R19-15 mAb (Cat. No. 553388, 553389, or 553391, respectively) for detection. This pair of anti-mouse IgG2a mAbs can effectively quantitate mouse IgG2a of these mouse *Igh-C* haplotypes, in order of sensitivity from highest to lowest: *e*, *a*, *j*, and *b*.

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to wwwbdbiosciences.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

- 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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