

## Technical Data Sheet

## Biotin Mouse Anti-Rat and Anti-Hamster Ig, κ Light Chain

## Product Information

|                         |  |
|-------------------------|--|
| <b>Material Number:</b> | 550336   |
| <b>Size:</b>            | 1.0 ml   |
| <b>Clone:</b>           | RG7/7.6  |
| <b>Immunogen:</b>       | Pooled Rat IgG   |
| <b>Isotype:</b>         | Mouse (SJL) IgG2a, κ   |
| <b>Reactivity:</b>      | QC Testing: Rat<br>Tested in Development: Armenian Hamster, Syrian Hamster     |
| <b>Storage Buffer:</b>  | Aqueous buffered solution containing BSA, goat serum, and ≤0.09% sodium azide. |

## Description

The RG7/7.6 antibody reacts strongly with rat Igs bearing  $\kappa$  - light chain of the Igk-1[a] allotype (e.g., AO, AUG, BN, BUF, LEW, LOU, PVG, WAG, WF), weakly with Igk-1[b] light chains (e.g., ACI, COP, DA, F344, SHR), and it does not react with  $\lambda$  light chain nor heavy chains. At the time that this antibody was characterized, the Igk-1[a] allotype was designated - 1b, and Igk-1[b] was -1a; the current nomenclature was standardized at the Fourth International Workshop on Allogenic Systems in the Rat. The RG7/7.6 antibody also strongly cross-reacts with Syrian and Armenian hamster Ig - light chain.

## 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

|                             |                  |
|-----------------------------|------------------|
| Immunohistochemistry-frozen | Routinely Tested |
|-----------------------------|------------------|

## Suggested Companion Products

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

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at [http://www.bdbiosciences.com/documents/hamster\\_chart\\_11x17.pdf](http://www.bdbiosciences.com/documents/hamster_chart_11x17.pdf).
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. 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.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
6. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.

## References

Butcher GW. A list of monoclonal antibodies specific for alloantigens of the rat. *J Immunogenet.* 1987; 14(2-3):163-176. (Clone-specific)  
 Springer TA, Bhattacharya A, Cardoza JT, Sanchez-Madrid F. Monoclonal antibodies specific for rat IgG1, IgG2a, and IgG2b subclasses, and kappa chain monotypic and allotypic determinants: reagents for use with rat monoclonal antibodies. *Hybridoma.* 1982; 1(3):257-273. (Clone-specific)

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