

Technical Data Sheet

Biotin Mouse Anti-Rat Ig, κ Light Chain

Product Information

Material Number:	553871
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	MRK-1
Immunogen:	Pooled rat Ig
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and $\leq 0.09\%$ sodium azide.

Description

The MRK-1 antibody reacts specifically with rat Igs bearing κ light chain. It does not react with λ light chain or heavy chains. MRK-1 antibody is effective for detection of cell-surface Ig by immunofluorescent staining with flow cytometric analysis. It has not been shown to stimulate B-cell proliferation.

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 biotin under optimum conditions, and unreacted biotin was removed.

Application Notes

Application

Flow cytometry	Routinely Tested
ELISA Detection	Routinely Tested
Immunohistochemistry-frozen	Tested During Development

Recommended Assay Procedure:

ELISA: For detection of rat IgG1, G2a, G2b, G2c, IgA, or IgM in a sandwich ELISA, biotinylated mAb MRK-1 (can be cocktailed with biotin-conjugated anti-rat Ig λ light chain, clone G33-11) is optimal for detection with purified anti-rat Ig isotype-specific mAbs (RG11/39.4, Cat. No. 553889; RG7/1.30, Cat. No. 553893; RG7/11.1, Cat. No. 553897 or G15-337, Cat. No. 553882; A92-1, [available by custom order]; A93-2, [available by custom order]; G53-238, Cat. No. 553885) for capture, respectively.

Flow Cytometry: Biotin-conjugated MRK-1 mAb may be used as a primary or secondary reagent in immunofluorescent staining.

Immunohistochemistry: For use as a second-step in IHC, we suggest RG7/7.6 mAb (anti-rat and -hamster Ig κ light chain) in our special formulation for immunohistochemistry, Cat. No. 550336.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553889	Purified Mouse Anti-Rat IgG1	0.5 mg	RG11/39.4
553893	Purified Mouse Anti-Rat IgG2a	0.5 mg	RG7/1.30
553897	Purified Mouse Anti-Rat IgG2b	0.5 mg	RG7/11.1
553882	Purified Mouse Anti-Rat IgG2b	0.5 mg	G15-337
553885	Purified Mouse Anti-Rat IgM	0.5 mg	G53-238

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. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

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