

## Technical Data Sheet

**R718 Mouse IgG1, κ Isotype Control****Product Information**

<b>Material Number:</b>	566928
<b>Alternate Name:</b>	IgG1, kappa Isotype Control (Anti-KLH)
<b>Size:</b>	50 µg
<b>Concentration:</b>	0.2 mg/ml
<b>Clone:</b>	X40
<b>Immunogen:</b>	Keyhole limpet hemocyanin (KLH)
<b>Isotype:</b>	Mouse (BALB/c) IgG1, κ
<b>Storage Buffer:</b>	Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The X40 hybridoma was derived from the fusion of mouse Sp2/0-Ag 14 myeloma cells with spleen cells from BALB/c mice immunized with keyhole limpet hemocyanin (KLH). The hybridoma secretes monoclonal antibody that binds specifically to KLH, an antigen not expressed on human cells or human cell lines.

The antibody was conjugated to BD Horizon Red 718, which has been developed exclusively for BD Biosciences as a better alternative to Alexa Fluor® 700. BD Horizon Red 718 can be excited by the red laser (628 – 640 nm) and, with an Em Max around 718 nm, it can be detected using a 730/45 nm filter. Due to similar excitation and emission properties, we do not recommend using R718 in combination with APC-R700 or Alexa Fluor® 700.

**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 to the dye under optimum conditions and unreacted dye was removed.

**Application Notes****Application**

Isotype control	Routinely Tested
Flow cytometry	Routinely Tested

**Recommended Assay Procedure:**

BD™ CompBeads can be used as surrogates to assess fluorescence spillover (Compensation). When fluorochrome conjugated antibodies are bound to CompBeads, they have spectral properties very similar to cells. However, for some fluorochromes there can be small differences in spectral emissions compared to cells, resulting in spillover values that differ when compared to biological controls. It is strongly recommended that when using a reagent for the first time, users compare the spillover on cells and CompBead to ensure that BD Comp beads are appropriate for your specific cellular application.

**Suggested Companion Products**

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)

**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
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. Alexa Fluor® is a registered trademark of Life Technologies Corporation.
5. Please refer to <http://regdocs.bd.com> to access safety data sheets (SDS).
6. Please refer to [wwwbdbiosciences.com/us/s/resources](http://wwwbdbiosciences.com/us/s/resources) for technical protocols.

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