

Ab-Capcher™ purification of mouse and rat IgG

Serum isotype testing

Reagents

- Mouse Immunoglobulin Isotyping ELISA Kit (BD Bioscience; 550487)
- Rat Immunoglobulin Isotyping ELISA Kit (BD Bioscience; 557081)

Samples

- IgG purified from mouse serum using Ab-Capcher™
- IgG purified from rat serum using Ab-Capcher™
- Mouse serum
- Rat serum

Reaction protocol

- Measured according to the Kit protocol

Anti-mouse IgG on 96-well plate
or coated with anti-rat IgG

↓ 37° C for 1 hour

Add blocking liquid

↓ room temperature for 30 minutes

Sample addition

↓ room temperature for 60 minutes

Add HRP labeled IgG

↓ room temperature for 60 minutes

Add coloring reagent

↓

Measure 450 nm absorption

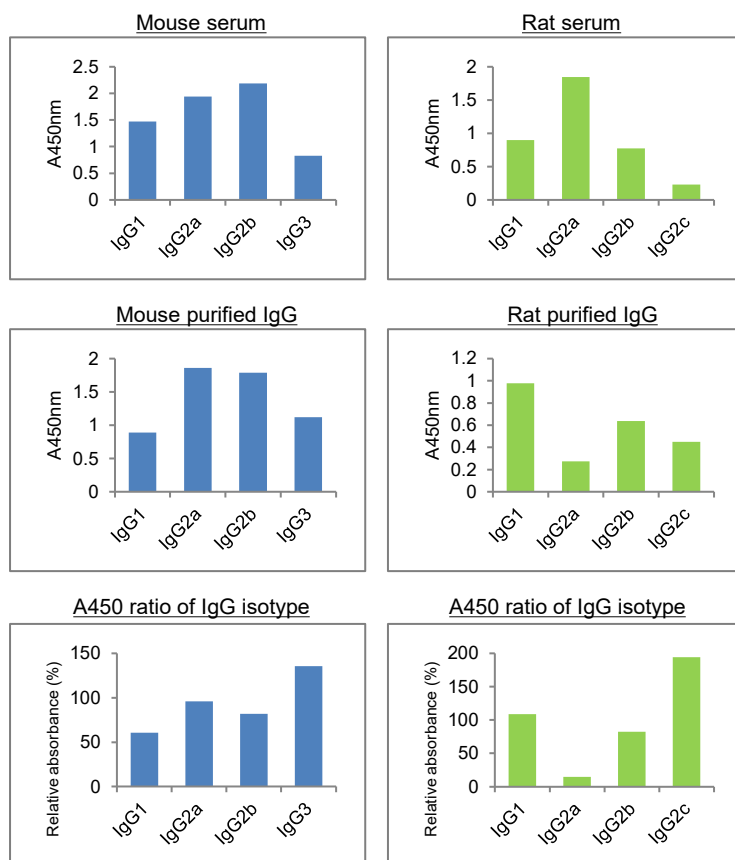


Figure 1. IgG isotypes purified from mouse serum using Ab-Capcher™

Figure 2. IgG isotypes purified from rat serum using Ab-Capcher™

Isotype testing was carried out on mouse serum, rat serum and IgG purified from each serum using Ab-Capcher™. The 450 nm absorbance ratios were computed to obtain relative absorbance values for each isotype. Purified mouse IgG showed an isotype profile like that of serum (Fig. 1), indicating that Ab-Capcher™ can be used for purification of all four mouse IgG isotypes (IgG1, IgG2a, IgG2b, IgG3). The same was true for rat IgG, except for IgG2a which was greatly reduced (Fig. 2). Thus, although Ab-Capcher™ can be used for purification of rat IgG1, IgG2b and IgG2c, but not IgG2a.