Validation data for Anti-CoV2RBD-imd-mIgG2a

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Anti-CoV2RBD-imd-mIgG2a and Anti-CoV2RBD-cas-mIgG2a are recombinant monoclonal antibodies (mAbs) featuring the variable region of the REGN10987 (aka Imdevimab) and REGN10933 (aka Casirivimab) human mAbs, respectively. They both feature a mouse IgG2a constant region and they specifically target the SARS-CoV-2 Spike receptor-binding domain (RBD). The binding of these antibodies has been validated by ELISA, using coated SARS-CoV-2 Spike-RBD proteins derived from the Wuhan **(Figure 1A)**, United Kingdom **(Figure 1B)**, and South-Africa **(Figure 1C)** variants, as well as an Anti-mIgG2a-HRP secondary antibody. CR3022-derived Anti-Spike-RBD-mIgG2a and Anti-βGal mIgG2a have been used as controls.

Binding of Anti-CoV2RBD-imd-mIgG2a and Anti-CoV2RBD-cas-mIgG2a to RBD variants

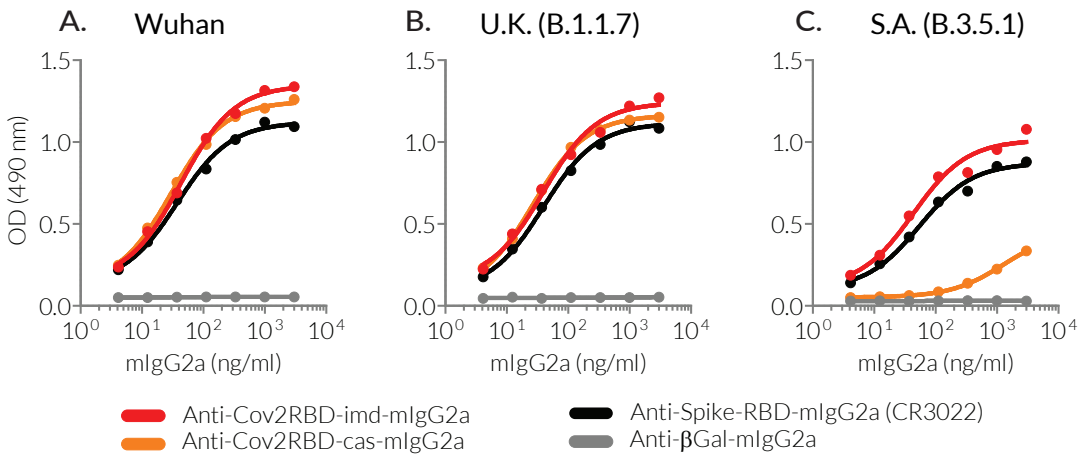

Figure 1: SARS-CoV-2 Spike-RBD proteins (3 µg/ml) derived from the Wuhan **(A)**, United Kingdom (U.K.) **(B)**, or South-Africa (S.A.) **(C)** variants were coated on ELISA plates overnight. A 3-fold serial dilution of Anti-CoV2RBD-imd-IgG2a (red curve), Anti-CoV2RBD-cas-mIgG2a (orange curve), CR3022-derived Anti-Spike-RBD mIgG2a (back curve), of Anti-βGal-mIgG2a antibodies (grey curve) was performed for the capture step. A HRP-labelled Anti-mIgG2a antibody (1/1000 dilution) and the HRP substrate OPD (o-phenylenediamine dihydrochloride) were used for the detection step. Absorbance was read at 490 nm.

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