Validation data for Anti-CoV2RBD-c1-hIgG1 (clone H4)

https://www.invivogen.com/sars2-spike-h4-mab

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Version 20I30-ED

Anti-CoV2RBD-c1-hIgG1 is a recombinant monoclonal antibody (mAb) featuring the variable region of the SARS-CoV-2 spike mAb (clone H4), which specifically targets the SARS-CoV-2 Spike receptor-binding domain (RBD), and the constant region of the human IgG1 (hIgG1) isotype. The binding of the antibody has been validated by ELISA using a coated Spike-RBD-His fusion peptide (**Figure 1**), and with flow cytometry of HEK293 cells expressing the full length SARS-CoV-2 spike (S) protein (**Figure 2**).

Binding of Anti-CoV2RBD-c1-hIgG1 to SARS-CoV-2 spike RBD by ELISA

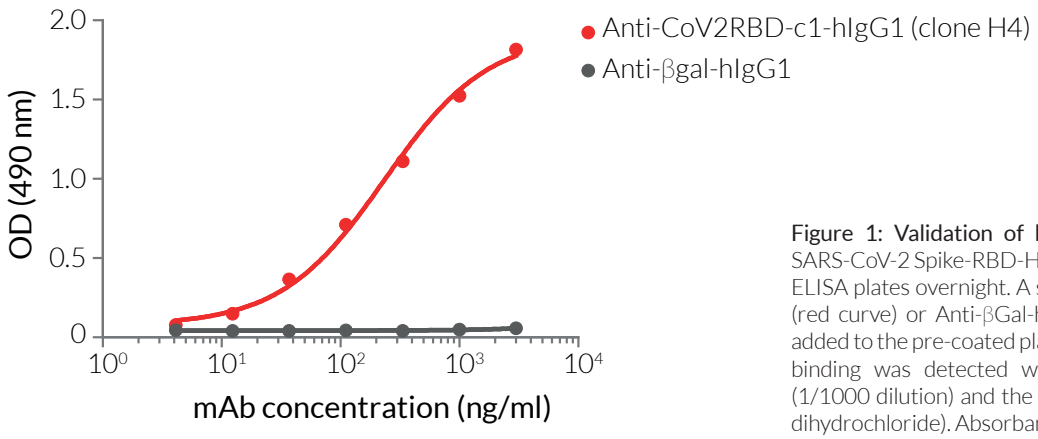

Figure 1: Validation of binding to SARS-CoV-2 RBD by ELISA. SARS-CoV-2 Spike-RBD-His fusion peptide (5 µg/ml) was coated onto ELISA plates overnight. A serial dilution of Anti-CoV2RBD-c1-hIgG1 (red curve) or Anti-βGal-hIgG1 (control antibody; grey curve) was added to the pre-coated plate and incubated for 1 hour. Subsequently, binding was detected with a HRP-labelled anti-hIgG1 antibody (1/1000 dilution) and the HRP substrate OPD (o-phenylenediamine dihydrochloride). Absorbance was read at 490 nm.

Binding of Anti-CoV2RBD-c1-hIgG1 to SARS-CoV-2 spike-expressing cells

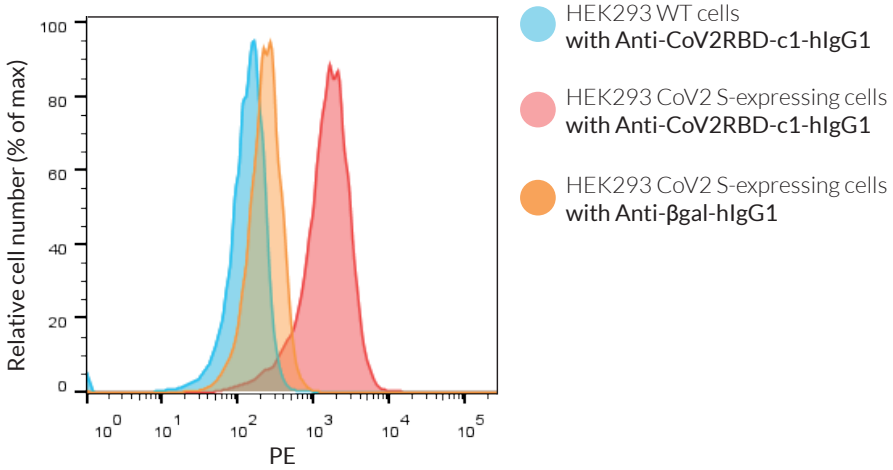

Figure 2: Validation of binding to SARS-CoV-2 spike-expressing cells. HEK293 wild-type (WT) and HEK293-expressing SARS-CoV-2 spike (S) cells were incubated with Anti-CoV2RBD-c1-hIgG1 (Blue and Red curve) or with a negative control mAb (Anti-βgal-hIgG1; orange curve) for 1 hour at 4°C (10 µg/ml per 5 x 10^5 cells). Following this, the cells were washed and incubated with an anti-human IgG-Fc PE-conjugated mAb for 1 hour at 4°C. The binding affinity was then measured using flow cytometry.

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