

CATALOG & PRICING

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Cat. #	Conjugation	Size
303-500	Polymer-Horseradish Peroxidase	500 µL
303-1000		1000 µL
303-2000		2000 µL

ANTIGEN BACKGROUND

This secondary antibody is affinity-purified and is suitable for detecting rabbit IgG used in ELISA. Polymer-HRP conjugation increases sensitivity and minimizes background detection. First, a primary antibody of rabbit origin is bound to a target antigen. Following a brief wash, Polymer-HRP-conjugated goat anti-rabbit IgG secondary antibody is applied to form a complex with the primary antibody. After another brief wash, HRP substrates such as luminol or 3,3'-diaminobenzidine (DAB) are added to produce detectable chemiluminescence or insoluble colors.

PRODUCT FEATURES

- Conjugated to a polymer backbone linked to numerous HRP enzymes
- Increases assay sensitivity by up to 50-fold as compared to single HRP conjugation
- Suitable for amplifying low-abundance protein and low-affinity antigen-antibody binding signals

PRODUCT DETAILS

SPECIES REACTIVITY

Rabbit

CONJUGATE

Polymer-horseradish peroxidase (HRP)

IMMUNOGEN

Rabbit IgG, heavy and light chains

ANTIBODY FORM

Whole antibody (H + L)

ISOTYPE

Goat IgG

CLONALITY

Polyclonal

STORAGE

Supplied in 100x concentrated solution. Store at 4C.

TESTED APPLICATIONS

ELISA

RECOMMENDED DILUTIONS

ELISA: 1:100-1:300

TECHNICAL NOTE

Do not use sodium azide (NaN₃) as a bacteriostatic preservative in antibody dilution buffer, since this product inhibits HRP enzyme activity.

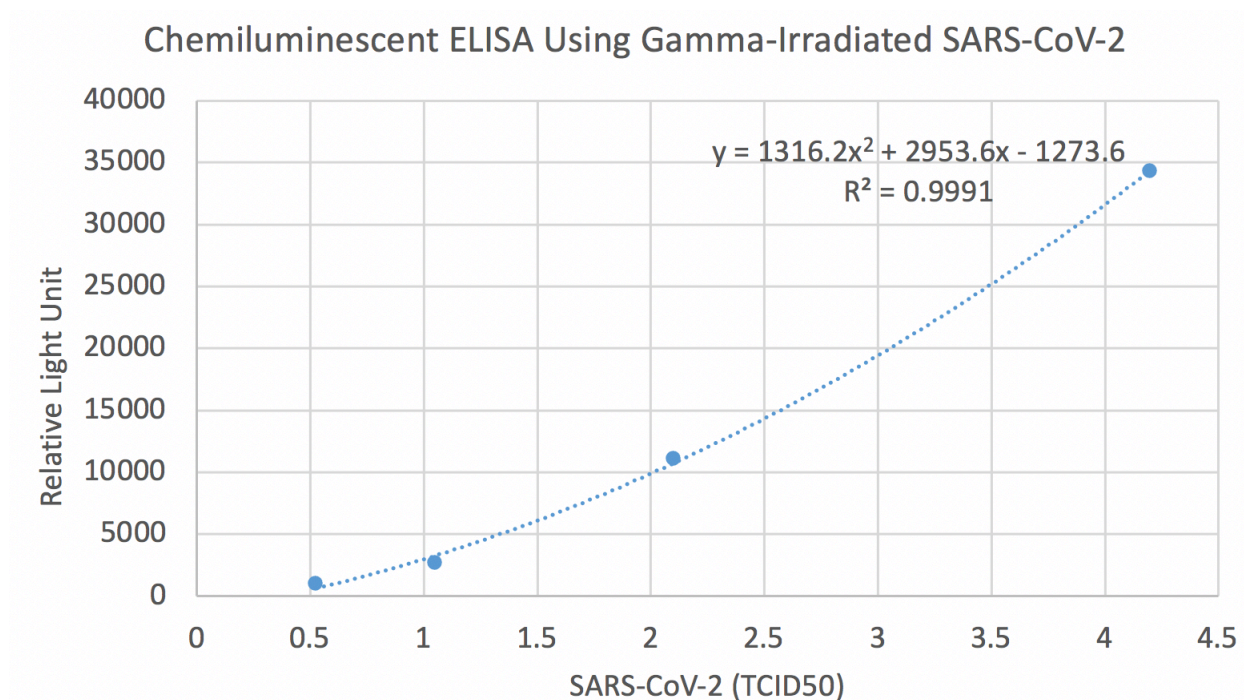
ANTIBODY TESTING DATA

Figure 1. Chemiluminescent ELISA with SARS-CoV-2. Different concentrations of gamma-irradiated SARS-CoV-2 coronavirus were lysed in the Viral Lysis Buffer (Cat# VL101) and coated (150 μ L) on microplate wells. Primary rabbit monoclonal anti-N antibody (Cat# VYN7, 1:10,000) and secondary polymer-HRP-conjugated goat anti-rabbit IgG antibody (Cat# 303, 1:100) were used to detect SARS-CoV-2 N protein. PiQTM ECL (Cat# 636) reagents were used to produce chemiluminescent signals. RLU, relative light unit.