



[Go to Product page](#)

Datasheet for ABIN263581  
**anti-Bovine Coronavirus antibody**

### Overview

Quantity:	1 mg
Target:	Bovine Coronavirus (BCoV)
Reactivity:	Bovine Coronavirus (BCoV)
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Bovine Coronavirus antibody is un-conjugated
Application:	Enzyme Immunoassay (EIA)

### Product Details

Immunogen:	Bovine corona virus. Hybridization of Sp2/0 myeloma cells with spleen cells from Balb/cmice.
Clone:	5A4
Isotype:	IgG1
Characteristics:	Synonyms: Spike glycoprotein, S glycoprotein
Purification:	Protein G chromatography
Purity:	> 95 % pure (SDS-PAGE)

### Target Details

Target:	Bovine Coronavirus (BCoV)
Abstract:	<a href="#">BCoV Products</a>
Target Type:	Virus

## Target Details

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**Background:** Bovine Corona Virus Spike glycoprotein is cleaved into S1 and S2 Spike proteins. The precursor is processed into S1 and S2 by host cell furin or furin-like protease to yield the mature S1 and S2 proteins. The cleavage site between S1 and S2 requires the optimal sequence [KR]-X-[KR]-R.S1 attaches the virion to the cell membrane by binding to 9-O-acetylated sialic acid containing proteins, initiating the infection.S2 is a class I viral fusion protein. Under the current model, the protein has at least 3 conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell membrane fusion, the coiled coil regions (heptad repeats) assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of viral and target cell membranes.Synonyms: E2 protein, Peplomer protein, S glycoprotein, Spike glycoprotein

**UniProt:** [P25193](#)

## Application Details

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**Application Notes:** ELISA. HIT (hemagglutination inhibition titer).  
Other applications not tested.  
Optimal dilutions are dependent on conditions and should be determined by the user.

**Restrictions:** For Research Use only

## Handling

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**Concentration:** 1.8mg/mL (OD280nm E0.1%=1.4)

**Buffer:** PBS, pH 7.4 containing 0.09 % Sodium azide

**Preservative:** Sodium azide

**Precaution of Use:** This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** 4 °C

**Storage Comment:** Store the antibody undiluted at 2-8 °C. DO NOT FREEZE!  
Shelf life: one year from despatch.

**Expiry Date:** 12 months