

Product datasheet for AM00683PU-N

ELISA.

OriGene Technologies, Inc.

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Bovine Corona Virus E2 protein Mouse Monoclonal Antibody [Clone ID: 5A4]

Product data:

Product Type: Primary Antibodies

Clone Name: 5A4
Applications: ELISA

Recommended Dilution:

HIT (hemagglutination inhibition titer).

Reactivity: Bovine Coronavirus

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Bovine corona virus. Hybridization of Sp2/0 myeloma cells with spleen cells from Balb/c mice.

Specificity: Recognizes bovine corona virus surface antigen (peplomer).

Formulation: PBS, pH 7.4 containing 0.09% Sodium azide

State: Purified

State: Liquid purified IgG

Concentration: lot specific

Purification: >95% pure (SDS-PAGE). Protein G chromatography

Conjugation: Unconjugated

Storage: Store the antibody undiluted at 2-8°C.

DO NOT FREEZE!

Stability: Shelf life: one year from despatch.

Database Link: P25193



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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: Spike glycoprotein, S glycoprotein, Peplomer protein, E2 protein

Note: Centrifuge before opening to ensure complete recovery of vial contents.