ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Canine Coronavirus antibody

Cat # CRCOV11-S | Rabbit Anti-Canine Coronavirus, IgG fraction | **SIZE**: 200 µl

Canine coronavirus (CCoV) is an enveloped, positive-sense, single-stranded RNA virus which is a member of the species Alphacoronavirus. It causes a highly contagious intestinal disease worldwide in dogs. The infecting virus enters its host cell by binding to the APN receptor. There are two known types of canine coronaviruses; CCoV is a member of the alphacoronavirus genus, and the more recently identified canine respiratory coronavirus (CRCoV) is a member of the betacoronavirus genus. CCoV is closely related to transmissible gastroenteritis virus (TGEV) of pigs, ferret coronavirus and feline coronavirus (FCoV); whereas CRCoV is more closely related to bovine coronavirus. CCoV contains two distinct serotypes, type I and type II which have markedly different spike proteins

Source of Antigen and Antibodies

Host: Rabbit

Clonality: Polyclonal

Immunogen: Canine Coronavirus Viral particles

Purification: Ammonium sulfate followed by Protein G affinity purification

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (**ADI cat#20320)**

Negative Control: Non-immune Rabbit IgG (**ADI cat# 20009-1**).

Form & Storage of Antibodies

☐ **Affinity pure IgG Solution**
Volume: 200 µl
Supplied in PBS, pH with <0.1% sodium azide
The antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

☐ **Lyophilized powder**
Lyophilized from a formulation of PBS pH 7.4 +3% trehalose. Reconstitute powder in 200 µl PBS, 0.05% tween-20, and 0.1% BSA to 0.5 mg/ml

Storage:

Short-term: 4^{o}C for 1 month

Long-term: at –20^{0}C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple free/thaw cycles or store working, diluted solutions. Glycerol may be added to a final concentration of 50% and antibodies can be stored un-aliquoted at –20^{0}C.

Recommended Usage

ELISA: Assay dependent concentration.

Western Blotting:

Immunohistochemistry& Immunocytochemistry: Not validated for use in-house.

The above concentrations are a *suggestion*, user's must optimize their assay based on their own conditions. The antibody may work in other applications such as Immunocytochemistry or IP. These methods have not been tested by ADI.

This product is for In vitro research use only.

Related materials available from ADI

Catalog#	Description
CPV11-S	Rabbit anti-Canine Parvovirus, IgG fraction
CPV-R-100	Canine Parvovirus Antigen
CRCOV-R-100	Canine Coronavirus Antigen

CRCOV11-S 190702IA

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