



# CDV surface envelope antigen (8-1): sc-51813

## BACKGROUND

Canine distemper is a highly infectious and often lethal viral disease of the genus Morbillivirus which affects the respiratory, gastrointestinal and central nervous systems of dogs and other carnivores. Dogs from four months to four years old are particularly susceptible. Canine distemper virus (CDV) is transmitted through the air and through contact with infected bodily fluids, including food and water contaminated with these fluids. CDV surface envelope antigen is a viral protein that assists in the viral invasion of the host cell. Once CDV invades the central nervous system, CDV replicates in glial cells and neurons of the white matter during a period of viral induced immunosuppression, eventually leading to demyelination in the absence of inflammation. Encephalomyelitis is the common cause of death from CDV infection. Persistence of the virus in the brain may be due to non-cytolytic selective spread of CDV with very limited budding.

## REFERENCES

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## SOURCE

CDV surface envelope antigen (8-1) is a mouse monoclonal antibody raised against a purified envelope protein of CDV origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>2a</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

CDV surface envelope antigen (8-1) is recommended for detection of surface envelope antigen of CDV by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.