**BACKGROUND**

Newcastle disease virus (NDV) is a negative-sense single-stranded RNA virus which causes Newcastle disease, a highly contagious zoonotic bird disease affecting many domestic and wild avian species. Transmission occurs by exposure to fecal and other excretions from infected birds and replication takes place in the cytoplasm of the host cell. NDV HN (hemagglutinin-neuraminidase) is one of eight proteins encoded by the NDV genome. NDV HN is glycosylated and functions as a component of the external envelope, responsible for the binding of NDV to host cells. More specifically, NDV HN attaches to the sialic acid-containing receptors on target cells and causes an upregulation in the host cell expression of TRAIL, death receptors (DRs) and IFN-α. Once bound, the viral and cell-surface membranes fuse through a process regulated by the NDV F protein. Both NDV HN and NDV F proteins promote the infection of neighboring cells and are therefore involved in the viral infectivity and virulence of NDV.

**REFERENCES**


**SOURCE**

NDV HN (11F12) is a mouse monoclonal antibody raised against HN of La-sota strain of Newcastle disease virus origin.

**PRODUCT**

Each vial contains 100 µg IgG2a in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

NDV HN (11F12) is recommended for detection of hemagglutinin neuraminidase of Newcastle disease virus origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). Molecular Weight of NDV HN: 74 kDa.

**STORAGE**

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

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

**RESEARCH USE**

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