bs-4529R **[Primary Antibody]**

NDV HN Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: NDV HN

Immunogen: KLH conjugated synthetic peptide derived from NDV HN protein: 401-500/577/577.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The entry of Newcastle disease virus (NDV), a prototype paramyxovirus, is directed by two virion glycoproteins, the hemagglutinin-neuraminidase (HN) protein and the fusion (F) protein . HN protein, the virus attachment protein, binds to sialic acid-containing receptors, and F protein mediates membrane fusion. In contrast to many viral fusion proteins, paramyxovirus F proteins do not require the acid pH of endosomes to activate fusion activity. As a consequence, infected cells expressing both attachment proteins and F proteins can fuse with adjacent cells to form multinuclear cells, or syncytia, a process that is assumed to mimic virus-cell fusion .

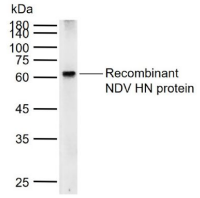
Applications: **WB** (1:500-2000)
ELISA (1:5000-10000)

Reactivity: NDV

Predicted MW.: 63 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Recombinant NDV HN protein, His Primary: Anti-NDV HN (bs-4529R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 63 kDa Observed band size: 61 kDa

SELECTED CITATIONS

- **[IF=4.8]** Jung Bo-Kyoung. et al. The artificial amino acid change in the sialic acid-binding domain of the hemagglutinin neuraminidase of newcastle disease virus increases its specificity to HCT 116 colorectal cancer cells and tumor suppression effect. VIROL J. 2024 Dec;21(1):1-17 IHC ;Mouse. 38178138
- **[IF=4.43]** Wei, Ding, et al. "Oncolytic Newcastle disease virus expressing chimeric antibody enhanced anti-tumor efficacy in orthotopic hepatoma-bearing mice."Journal of Experimental & Clinical Cancer Research 34.1 (2015): 1. IHC ;="Mouse". 26689432
- **[IF=4]** Bo-Kyoung Jung. et al. The tumor suppressive effect and apoptotic mechanism of TRAIL gene-containing recombinant NDV in TRAIL-resistant colorectal cancer HT-29 cells and TRAIL-nonresistant HCT116 cells, with each cell bearing a mouse model. CANCER MED-US. 2023 Oct;: IHC ;Mouse. 37843231
- **[IF=3.24]** Bo-Kyoung Jung. et al. The human ACE-2 receptor binding domain of SARS-CoV-2 express on the viral surface

of the Newcastle disease virus as a non-replicating viral vector vaccine candidate. Plos One. 2022 Feb;17(2):e0263684 WB ;Monkey. 35134091

- **[IF=2.1]** Jiahui Wang. et al. Newcastle disease virus LaSota strain induces apoptosis and activates the TNFα/NF-κB pathway in canine mammary carcinoma cells. VET COMP ONCOL. 2023 Jun;: IHC ;Mouse. 37282822