bs-4529R

[Primary Antibody]

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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)

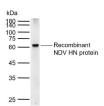
Reactivity: NDV

Predicted 6

MW.: ^{63 kDa}

Subcellular Cell membrane Location:

- 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 NDa 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 \overline{WB} ;Monkey. 35134091 $\bullet \ \ [\textbf{IF=2.1}] \ \ \text{Jiahui Wang. et al. Newcastle disease virus LaSota strain induces apoptosis and activates the TNF} \alpha/NF-\kappa B$ pathway in canine mammary carcinoma cells. VET COMP ONCOL. 2023 Jun;: IHC; Mouse. 37282822