Rabbit Anti-RSVgp07 Polyclonal Antibody

Cat. No. CPB-135R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	RSV
Source	Rabbit
Immunogen Description	Human respiratory syncytial virus (HRSV) is the most common etiological agent of acute lower respiratory tract disease in infants and can cause repeated infections throughout life. It is classified within the genus pneumovirus of the family paramyxoviridae. Like other members of the family, HRSV has two major surface glycoproteins (G and F) that play important roles in the initial stages of the infectious cycle. HRSV G protein is a type II glycoprotein of 289-299 amino acids (depending on the virus strain) with a signal/anchor hydrophobic domain and is extensively modified by the addition of both N-and O-linked oligosaccharides to achieve the mature form of 80-90 kDa. The C-terminal ectodomain of the G protein has a central region and four cysteines which are conserved in all HRSV isolates and have been proposed as the putative receptor binding site. The G protein mediates attachment of the virus to the host cell membrane by interacting with heparan sulfate, initiating the infection. As similar to mucins in amino acid compositions, the RSV G protein can interact with host CX3CR1, the receptor for the CX3C chemokine fractalkine, and thus modulates the immune response and facilitate infection. Secreted glycoprotein G helps RSV escape antibody-dependent restriction of replication by acting as an antigen decoy and by modulating the activity of leukocytes bearing Fcgamma receptors. Unlike the other paramyxovirus attachment proteins, HRSV-G lacks both neuraminidase and hemagglutinating activities.

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Immunogen	Recombinant human HRSV glycoprotein G/RSVgp07
Antibody Type	Rabbit Polyclonal Antibody
Ig Type	Rabbit IgG
Formulation	0.2 μm filtered solution in PBS with 5% trehalose
Preparation	Produced in rabbits immunized with purified, human cell-derived, recombinant human respiratory syncytial virus glycoprotein G (His 67-Arg 297). Total IgG was purified by Protein A affinity chromatography.
Specificity	HRSV glycoprotein G/RSVgp07
Western blot	This antibody can be used at 1-2μg/mL with the appropriate secondary reagents to detect HRSV glycoprotein G in WB.
Direct ELISA	This antibody can be used at 0.5-1.0μg/mL with the appropriate secondary reagents to detect HRSV glycoprotein G. The detection limit for HRSV glycoprotein G is 0.00245ng/well.
Storage	This antibody can be stored at 2℃-8℃ for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20℃ to -70℃. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

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