

Recombinant Anti-RSV Antibody Fragment scFv

Cat. No. MOM-18098-S(P) **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant antibody Fragment scFv to respiratory syncytial virus.

Species respiratory syncytial virus

Antigen Description

Respiratory Syncytial Virus (RSV) Fusion (F) Glycoprotein is a Class I viral fusion protein. Under the current model, the protein has at least 3 conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell membrane fusion, the heptad repeat (HR) regions assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of viral and target cell membranes. Directs fusion of viral and cellular membranes leading to delivery of the nucleocapsid into the cytoplasm. This fusion is pH independent and occurs directly at the outer cell membrane. The trimer of F1-F2 (protein F) interacts with glycoprotein G at the virion surface. Upon binding of G to heparan sulfate, the hydrophobic fusion peptide is unmasked and interacts with the cellular membrane, inducing the fusion between host cell and virion membranes. Notably, RSV fusion protein is able to interact directly with heparan sulfate and therefore actively participates in virus attachment. Furthermore, the F2 subunit was identified as the major determinant of RSV host cell specificity. Later in infection, proteins F expressed at the plasma membrane of infected cells mediate fusion with adjacent cells to form syncytia, a cytopathic effect that could lead to tissue necrosis. The fusion protein is also able to trigger p53-dependent apoptosis.

Target respiratory syncytial virus

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Immunogen	Recombinant FP	
Expression Host	E.coli	
Type	scFv	
Conjugation	His tagged	
Applications	Suitable for use in ELISA, western blot, immunohistochemistry, flow cytometry, immunoaffinity purification and most other immunological methods.	
Storage	Store it under sterile conditions at -20 °C upon receiving. Recommend to pack the protein into smaller quantities for optimal storage.	
Stability	Samples are stable for up to twelve months from date of receipt at -20°C and are stable for six months at 4 °C.	
Background	Introduction	Monoclonal Antibody Fragment binds to the fusion glycoprotein of RSV. A gainst respiratory syncytial virus.
	Keywords	RSV Fusion F Glycoprotein; RSV; Respiratory Syncytial Virus