

**DESCRIPTION**

|                                       |                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------|
| <b>Target:</b>                        | RSV-F                                                                                |
| <b>Target aliases:</b>                |                                                                                      |
| <b>Fc isotype:</b>                    | IgG2a                                                                                |
| <b>Membrane proteome specificity:</b> | Monospecific for 6,000 membrane proteins tested                                      |
| <b>Species reactivity:</b>            | Virus                                                                                |
| <b>Extracellular epitope:</b>         | Yes                                                                                  |
| <b>Fc modifications:</b>              | C-terminal Avitag <sup>1</sup> , disabled Fc- $\gamma$ receptor binding <sup>2</sup> |
| <b>Source:</b>                        | Recombinant CHO expression; purified by Protein A chromatography                     |
| <b>Formulation:</b>                   | Endotoxin Free PBS pH 7.4, sterile-filtered                                          |
| <b>Concentration:</b>                 | 1 mg/ml                                                                              |

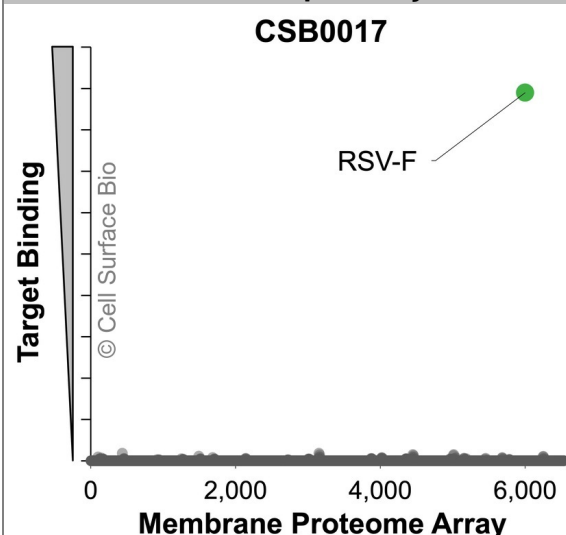
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc- $\gamma$  receptor binding site to minimize non-specific antibody binding.

**RSV-F TARGET INFORMATION**

RSV-F is a fusion glycoprotein that facilitates infection with respiratory syncytial virus (RSV). During infection, RSV-F mediates fusion between infected cells, forming syncytia. (UniProtKB/Swiss-Prot: P03420)

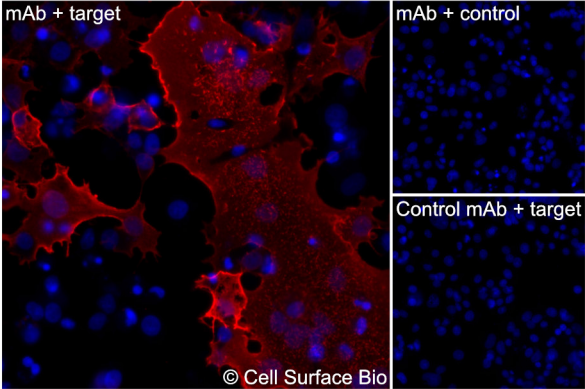
**SHIPPING AND STORAGE**

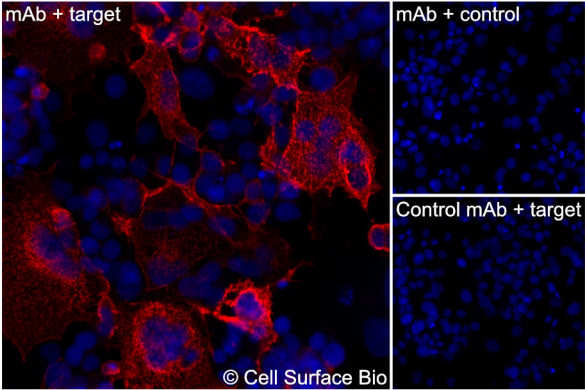
|                                 |                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Shipping:</b>                | Shipped at ambient temperature. Store at 4°C.                                                    |
| <b>Stability &amp; Storage:</b> | Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles. |

**VALIDATION DATA**
**Membrane Proteome Specificity**


The specificity of RSV-F Monoclonal Antibody (CSB0017) was tested on the Membrane Proteome Array™ and shown to be specific for RSV-F.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Conditions                | Recommended concentration |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|
| Immunofluorescence, Extracellular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fixed 4% paraformaldehyde | 1 µg/ml                   |
| <div> <div>  </div> <div> <p>(Left) COS-7 cells transiently transfected RSV-F were stained with RSV-F Monoclonal Antibody (CSB0017) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with RSV-F Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with RSV-F and stained with control MAb.</p> </div> </div> |                           |                           |

| Applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Conditions                                                    | Recommended concentration |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------|
| Immunofluorescence, Intracellular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Fixed 4% paraformaldehyde,<br>Permeabilized 0.1% Triton X-100 | 1 µg/ml                   |
| <div> <div>  </div> <div> <p>(Left) COS-7 cells transiently transfected RSV-F were permeabilized and stained with RSV-F Monoclonal Antibody (CSB0017) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with RSV-F Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.</p> </div> </div> |                                                               |                           |