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# 12-8117: Anti-Respiratory Syncytial Virus (Clone: RSV-14N4)

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| **Clonality :** | Monoclonal |
| **Clone Name :** | RSV-14N4 |
| **Application :** | ELISA |
| **Alternative Name :** | RSV, Orthopneumovirus, |
| **Isotype :** | Human IgG1Îº |
| **Immunogen Information :** | Human donors targeting the postfusion RSV F protein using human hybridoma technology |

## Description

**Reactivity Species :** Respiratory Syncytial·Virus
**Expression Host :** HEK-293
**Endotoxin Level :** ≤ 1.0 EU/mg as determined by the LAL method
**Specificity :** RSV-14N4 activity is directed against antigenic site II of the RSV fusion (F) protein. RSV-14N4 readily competes with clone RSV-12I1 on post-fusion F, but the competition is less pronounced on prefusion F.

A plaque reduction neutralization assay showed RSV-14N4 is capable of neutralizing RSV strain A2. By ELISA RSV-14N4 binds to both prefusion and post-fusion F proteins with equal affinity. Competition-binding studies showed that RSV-14N4 targets antigenic site II, which is the target of palivizumab, an antiviral monoclonal antibody used as a prophylactic treatment. Saturation alanine scanning mutagenesis identified residues Asp263, Ile266, Asp269, and Lys271 as critical for 14N4 binding. Binding to antigenic site II was confirmed by x-ray crystallography and electron microscopy as well as by binding to scaffolded epitopes containing site II.

## Product Info

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| **Amount :** | 100 µg |
| **Purification :** | â‰¥95% monomer by analytical SEC |
| **Content :** | â‰¥ 5.0 mg/ml. This recombinant monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. |
| **Storage condition :** | Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one year. For longer term storage, aseptically aliquot in working volumes without diluting and store at â‰¥ -70°C. Avoid Repeated Freeze Thaw Cycles. |