

12-8116: Anti-Respiratory Syncytial Virus (Clone: RSV-12I1)

Clonality :	Monoclonal
Clone Name :	RSV-12I1
Application :	ELISA
Alternative Name :	RSV, Orthopneumovirus
Isotype :	Human IgG1 κ
Immunogen Information :	Human donors targeting the post-fusion 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-12I1 activity is directed against antigenic site II of the RSV fusion (F) protein. Clone RSV-12I1 did bind to both pre- and post-fusion F protein in an ELISA binding assay, favoring the post-fusion conformation. Competition-binding studies showed that RSV-12I1 targets antigenic site II, which is the target of palivizumab, an antiviral monoclonal antibody licensed as a prophylactic treatment. RSV-12I1 readily competed with RSV-14N4 on post-fusion F, but the competition was less pronounced on pre-fusion F. RSV-12I1 also competed with palivizumab on post-fusion F in a palivizumab competition assay. Saturation alanine scanning mutagenesis identified residues Leu467 and Lys470 as critical for RSV-12I1 binding. Binding was not detected to scaffolded epitopes containing site II.

Product Info

Amount :	100 μ g
Purification :	$\geq 95\%$ monomer by analytical SEC
Content :	≥ 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 $\leq -70^{\circ}\text{C}$. Avoid Repeated Freeze Thaw Cycles.