

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	RSV-12I1
<b>Application :</b>	ELISA
<b>Alternative Name :</b>	RSV, Orthopneumovirus
<b>Isotype :</b>	Human IgG1 $\lambda$
<b>Immunogen Information :</b>	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 :**  $\leq$  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

<b>Amount :</b>	100 $\mu$ g
<b>Purification :</b>	$\geq$ 95% monomer by analytical SEC
<b>Content :</b>	$\geq$ 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.
<b>Storage condition :</b>	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 $\geq$ -70°C. Avoid Repeated Freeze Thaw Cycles.