

MONOCLONAL ANTIBODY DATASHEET



Clone 4-14

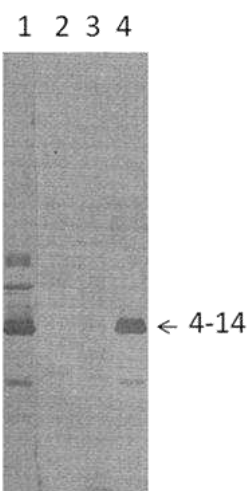
Specific to phosphoprotein VPP32 of Respiratory Syncytial Virus Subgroup B only

Human Respiratory Syncytial Virus (RSV) is a major cause of lower respiratory tract illness and is the chief cause of hospitalization for respiratory tract illness in young children.

There are two RSV subgroups: A and B. A and B subgroups circulate concurrently with the subgroup A usually dominating. (Reviewed by Hall CB, *N Engl J Med*; 344:1917-1928, 2001.

Specificity	Human Respiratory Syncytial Virus (RSV) phosphoprotein VPP32
Description	Monoclonal antibody specific to VPP32
Isotype	IgM
Clone	4-14
Purification	Unpurified, supplied as hybridoma supernatant
Immunogen	Gradient-purified RSN-2 virus (subgroup B) UV inactivated for 1 h at 20 C.
Cross-reactivity	Not reactive with VPP32 from human RSV isolates of subgroup A, not reactive with VPP32 from other members of the genus Pneumovirus: Bovine Respiratory Syncytial (BRS) virus and Pneumonia virus of mice (PVM)
B Cell Donor	BALB-c mouse
Positive Control	Immunoblot: Partial purified PVM (lane2). Partial purified BRS virus (lane3). Gradient-purified RSN-2 virus (lane1 and 4): 5ug per lane. First antibody: 4-14 antibody (lanes 1, 2, 3 and 4) Indirect immunofluorescence: staining of RSN-2 infected BSC-1 cells
Fusion Partner	X63.Ag8.653

Applications		Recommended Concentration
ELISA	✓	Undiluted
Immunoblot	✓	Undiluted
Immunofluorescence	✓	Undiluted



SUPPORTING DATA AND QC

Virus tested and expression	RSN-2 subgroup B	positive
	RSF-4 subgroup A	negative
	RSA-2 subgroup A	negative
	RS Long subgroup A	negative
	BRS	negative
	PVM	negative
	16 other virus isolates of subgroup A, and 20 other isolates of subgroup B were also tested in the original publication	
Acceptance criteria	No cross reactivity with other RSV proteins, not reactive with RSV subgroup A, Pneumonia virus of mice or Bovine RS virus	

Publications:

Gimenez, H B, Cash P, Melvin WT (1984) Monoclonal Antibodies to Human Respiratory Syncytial Virus and Their Use in Comparison of Different Virus Isolates. *J. Gen. Virol.* 65: 963-971.

Gimenez, H B, Hardman N, Keir HM, Cash P (1986) Antigenic Variation between Human Respiratory Syncytial Virus Isolates. *J. Gen. Virol.* **67**: 863-870.