MONOCLONAL ANTIBODY DATASHEET

VERTEBRATE ANTIBODIES

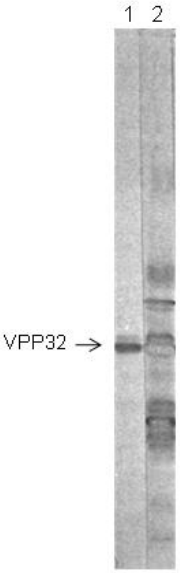
Clone 3-5-18

Specific to phosphoprotein VPP32 of Respiratory Syncytial Virus

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	IgG1,$_k$
Clone	3-5-18
Purification	Unpurified, supplied as hybridoma supernatant
Immunogen	Gradient-purified RSN-2 virus (subgroup B) treated with 0.1% SDS at 100°C for 2 mins.
Cross-reactivity	Cross reacts with VPP32 from human RSV of subgroup A and bovine respiratory syncytial virus (BRS), not reactive with other member of genus Pneumovirus (Pneumonia virus of mice)
B Cell Donor	BALB-c mouse
Positive Control	**Immunoblot:** Gradient-purified RSN-2 virus 5ug per lane. Lanes 1 and 2. First antibodies: Lane 1: 3-5 antibody**.** Lane2: RSV convalescent human sera. **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	positive
	RSA-2 subgroup A	positive
	RS Long subgroup A	positive
	BRS	positive
	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 crossreactivity with other RSV proteins**, not reactive with Pneumonia virus of mice (PVM)**	

Publications

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