

A

Ce_MSP-19	YDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPK	30	40	50	60	70	AVLLAVSC
Ce_MSP-45	.....						.....
Dc_MSP-1	KI.....PW..WT..A.....L.....ST.M.....						
Dc_MSP-2	KI.....WA.....R.....ST.M.....						
Ah_MSP-1	KIN.....WA.....AT.....M.....						
Ah_MSP-2	KIN.....WA.E...AT.....M.....						
An_MSP-1	?.....KIN.....L..WA..N.IAV.....M.....M.....						
An_MSP-2	KIN...T...VWA...N.AM.....T..M.....						

Ce_MSP-19	D	80	90	100	110	120	FAFAFGQEDTNNDRITVEWTNTPDGA	AKQFR	REWFQGDGMVRRKNLPIEYNP
Ce_MSP-45	.....						.....		.....
Dc_MSP-1	Y..E.....E.....						.....		.....
Dc_MSP-2	Y..E.....A.E.....						.....		.....
Ah_MSP-1	..T.D.AA...S.....E.....						.....		.....
Ah_MSP-2	..D.SS...S.....E.....						.....		.....
An_MSP-1	..D.AS.NFSKNC..G.....LES.....C.....						.....		.....
An_MSP-2	N..D.AS...S..H.SI.....E.....						.....		.....

MSP antibody

B

Ce_MSP-19	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDP	10	20	30	40	50	60
Mi_MSP-1	T.L.AV.VI...F.....YMKI...GGH...FAF...PR..NM...N.....						
Mi_MSP-3	T.L.AV.VI...F.....YMKI...GGH...FAF...PR..NM...N.....						
Mh_MSP-1	T.L.AV.VI...F.....YMKI...GGH...FAF...PR..NM...N.....						
Mh_MSP-3	..T.....T.L.AV.VI...F.....YMKI...GGH.V.FAF...PR..NM...N.....						
Ce_MSP-19	KEAVLLAVSCDAFAFGQEDTNNDRITVEWTNTPDGA	70	80	90	100	110	120
Mi_MSP-1	..I.NI.I.....DPAA.A.....V.....E.....M						
Mi_MSP-3	..I.NI.I.....DPAA.A.....V.....E.....M						
Mh_MSP-1	..I.NI.I.....DPAA.A.....V.....E.....M						
Mh_MSP-3	..I.NI.I.....DPAA.A.....V.....E.....M						