

Question	Marking guidance	Mark	Comments
<b>07.1</b>	1. (Anti-AQP4) antibody has a (specific) tertiary structure; 2. Has binding site / variable region that only binds to / complementary to one <u>antigen</u> ; 3. Antigen to this antibody (only) found on these nerve cells; 4. So, antibody (only) binds to / forms antigen-antibody complex with these nerve cells (causing damage);	4	Reject “active site” (only penalise once if it occurs throughout)  3. / 4. Accept ‘receptor’ for antigen
<b>07.2</b>	1. Only 20 in the study; OR Only one study; 2. For some concentrations of antibody there is a range in the number of vertebrae surrounding damaged nerve cells; 3. No statistical test used; 4. Correlation is weak;	3 max	1. Accept small sample  2. Accept suitable use of data 2. Accept converse
<b>07.3</b>	1. The monoclonal antibody binds to nerve cell antigen so less / no anti-AQP4 can bind; OR The monoclonal antibody forms antigen-antibody complex with nerve cell antigen so less / no anti-AQP4 can bind;  2. When monoclonal antibody binds it doesn’t cause damage to nerve cell;	2 max	It = monoclonal antibody 1. Reject “active site” Ignore “competitive inhibitor” Accept receptor for antigen  Do not credit responses in the context of enzymes