

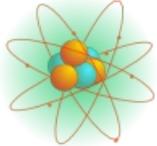
Rabbit Monoclonal Antibody: Another Choice for Scientific Community

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With the emerging of genomics, proteomics, and epitomics and increasing demand for better or novel antibodies, quality immunoassay and antibodies are urgently needed. For a long time, mouse monoclonal antibody has been a dominant tool in research and diagnostic and therapeutic areas. While compared with them, rabbit monoclonal antibodies, being a new host, offer an improved alternative for the scientific community and novel opportunities for diagnostics and therapeutics.

Why choose RabMAbs?

Generally speaking, RabMAbs have higher affinity, improved specificity, and recognition of antigens and epitopes that are nonimmunogenic to rodents.

Recent research advancements in rabbit immunology have shed some light on why rabbits generally produce better antibodies to many antigens than rodents: after primary and subsequent immunizations, naïve B cells are stimulated to differentiate into antibody-secreting plasma or memory cells. T-cell epitopes presented by MHC class I and class II molecules are typically peptides, whereas nonclassical MHC molecules, CD1 family molecules, present nonpeptidic epitopes such as lipid or glycolipid. The CD1 family molecules can be classified into three groups: group 1 (CD1a, CD1b, and CD1c); group 2 (CD1d); and group 3 (CD1e). Interestingly, rabbits express all three groups, whereas mice only express group 2, but not groups 1 and 3. Group 1 molecules mainly present a vast range of lipid antigens to clonally diverse T cells that mediate adaptive immunity. By contrast, group 2 molecules present lipid antigens to natural killer T (NKT) cells. Thus, the difference in the presentation of nonpeptidic epitopes between rabbit and mouse may explain why rabbits make better antibodies to lipids or glycolipids than mice in general.

In addition, B cells in the rabbit GALT are selected by both positive and negative selective events. Never mention that rabbit antibody is somewhat simpler than mouse and human antibodies.

As an expert in antibodies and recombinant proteins, Creative Biomart has pioneered many technologies and provides such RabMAbs to meet the most demanding research needs. For additional information, please visit

http://www.creativebiomart.net/producttypelist_27_1_1_Rabbit%20MAb.htm [2].

[3]

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