

អាចាំស្រីនៅក្រុំ ក្រុង ប្រាំស្រី ប្រស់ស្រី ប្រាំស្រី ប្រស់ស្រី ប្រាំស្រី ប្

long-term immunity. It can cross the placenta, o ering protection to developing foetuses.

IgA: Predominantly found in mucosal areas, such as the respiratory and digestive tracts. It plays a critical role in preventing pathogens from entering the body through these surfaces.

IgE: Involved in allergic reactions and defence against parasites.

IgD: Its precise function is less understood, but it is thought to be involved in the maturation of B cells.

Antibodies and vaccination: e discovery of antibodies and their role in immunity has revolutionized medicine, leading to the development of vaccines. Vaccines contain weakened or inactivated forms of pathogens or speci c antigens, which stimulate the production of antibodies without causing the disease. If the vaccinated individual later encounters the actual pathogen, their immune system can recognize it quickly and mount a rapid and e ective response, preventing the development of the disease or reducing its severity [10].

Conclusion

Antibodies stand as the guardians of our immune system, diligently patrolling the body, identifying, and neutralizing potential threats to maintain our health. eir diverse functions, speci c targeting, and memory capabilities make them indispensable players in the body's ght against infections and diseases. e on-going research on antibodies and their interactions with the immune system continues to shed light on new therapeutic strategies and medical advancements, providing hope for a healthier and safer future. antigens are indispensable components of the immune system, acting as vital messengers that signal potential threats and mobilize the body's defenses against infections and diseases. e intricate interaction between antigens and the immune system enables our bodies to maintain a delicate balance between protecting against external invaders while avoiding attacks on healthy tissues.

Understanding the role of antigens in immunity has paved the way for the development of vaccines, immunotherapies, and diagnostic tools, revolutionizing modern medicine and leading to better disease prevention and treatment strategies. Further research into antigens and

their complex interactions with the immune system holds immense promise for the future, promising innovative approaches to tackle various health challenges and improve human well-being. Antibodies serve as the immune system's front-line defense, safeguarding the body from infections and diseases. eir unique speci city and versatility have made them indispensable tools in diagnostics, therapeutics, and preventive medicine, shaping modern healthcare practices. From vaccine development to targeted therapies, antibodies have revolutionized medical science, leading to innovative treatments and improved patient outcomes. As our understanding of these remarkable proteins grows, the future holds promising possibilities for harnessing the power of antibodies to combat a wide array of health challenges and usher in an era of personalized medicine.

References

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