

Characteristics of mRNA Vaccine

Comparison among characteristics of different vaccine types

Types	Immuno-genicity	Safety	Antibody specificity	Composition	manufactur e	R&D cycle	immune response	Application
Attenuated/ inactivated vaccine	Strong	Low	low	Not clear	simple	8 years+	Cellular immunity; Humoral immunity	Prophylactic vaccine
Subunit vaccine	weak	High	high	clear	Complicate d	8 years+	Cellular immunity or Humoral immunity	Therapeutic vaccine; Prophylactic vaccine
DNA vaccine	weak	Controversial	low	clear	simple	3~5 years	Cellular immunity; Humoral immunity	Therapeutic vaccine; Prophylactic vaccine
mRNA vaccine	Strong	High	high	clear	simple	3~5 years		