



Antigens

Pathogen

Phagocyte

Phagocytic
Vacuole

The Immune System & Phagocytosis

1 2 3 4 5

_____ :

→

- 1)
- 2)
- 3)
- 4)

_____ :

→

→

The Immune Response:

①

③

②

④

Phagocytosis:

→

→

→ 1)

2)

3)

4)



TT

T_H Cells

T_C Cells

Antibodies

Antigen-Antibody
Complex

Plasma Cells

Clonal Selection

Monoclonal
antibodies

Agglutination

The Immune System

② T-cells (T-Lymphocytes)

→

→ Types 1)
 2)

→

→

③ B-Cells (B-Lymphocytes)

_____ :

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→

↳

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_____ :

④ Plasma Cells

_____ :

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The Immune System: Antibodies & Primary + Secondary Response

1 2 3 4 5

The Structure of an Antibody -

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↳

↳

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Primary Response

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↑

Secondary Response

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Monoclonal
Antibodies

Antigen-Antibody
Complex

Monoclonal Antibodies

1 2 3 4 5

Targeting Medication:

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→

→

Medical Diagnosis:

1)

2)

3)

4)

5)

6)



Vaccine

Vaccines & Antigenic Variability-

1 2 3 4 5

_____:



Herd Immunity

_____:

Antigenic Variability-





TT

Active Immunity

Active and Passive Immunity

1

2

3

4

5

Natural →

Natural →

Passive Immunity

Artificial →

Artificial →

↳

→

→

→

→

→

↳

→

→

→



ELISA Test

1 2 3 4 5

_____ = _____

→

→

↳

DIRECT (_____)

1)

2)

3)

↳

4)

5)

6)

7)

INDIRECT (_____)

1)

2)

3)

4)

5)

6)



HIV & Viruses

1 2 3 4 5



Virus Reproduction

AIDS

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)