A

B-cell

Antigenic Shift

CD40

CD40L (CD154)

T-cell

APC stimulation:

IL-12

IFNγ

CD40L (CD154)

CD40

APC

 APC Maturation

Increased antigen presenting capacity

 Increased phagocytic activity

Lack of antigenic shift

CD40

B-cell

T-cell

Th1-cell stimulation:

IL-1

IL-6

IL-8

IL-12

TNFα

Decrease in APC maturation and phagocytic activity

DC

CD40