

# ABflo® 647 Rabbit anti-Human CD40 mAb

Catalog No.: A21947

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

31kDa

### Category

Primary antibody

### Applications

FC

### Cross-Reactivity

Human

### CloneNo number

ARC5133-01

### Conjugate

ABflo® 647. Ex:648nm. Em:664nm.

## Recommended Dilutions

FC 5 µl per 10<sup>6</sup> cells in  
100 µl volume

## Background

This gene is a member of the TNF-receptor superfamily. The encoded protein is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Mutations affecting this gene are the cause of autosomal recessive hyper-IgM immunodeficiency type 3 (HIGM3). Multiple alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

## Immunogen Information

### Gene ID

958

### Swiss Prot

P25942

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

p50; Bp50; CDW40; TNFRSF5

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

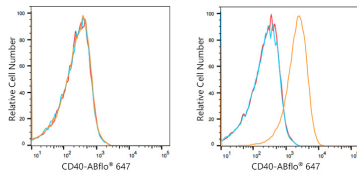
### Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS containing 0.2% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data

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Flow cytometry:  $1 \times 10^6$  Jurkat cells (negative control, left) and Raji cells (right) were surface-stained with ABflo® 647 Rabbit anti-Human CD40 mAb (A21947, 5  $\mu$ l/Test, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5  $\mu$ l/Test, blue line). Non-fluorescently stained cells were used as blank control (red line).