

Product Information

Recombinant Anti-Human CD40 Antibody Fab Fragment

Cat. No.: **MOM-18152-F(E)**

This product is for research use only and is not intended for diagnostic use.

Product Overview

Recombinant Humanized (from mouse) Antibody Fab Fragment is directed against Human CD40, expressed in Chinese Hamster Ovary cells(CHO)

Antigen Description

The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor has been found to be essential in 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. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

Specific Activity

Tested positive against native antigen.

Target

CD40

Immunogen

Recombinant protein of extracellular domain of CD40

Source

Humanized (from mouse)

Species Reactivity

Human

Type

Fab Fragment based on Humanized (from mouse) IgG1

Expression Host

CHO

Predicted N terminal

H chain: EVQLQQS; L Chain: DVVVTQT

Purity

>95.0%, determined by analysis by RP-HPLC & analysis by SDS-PAGE.

Applications

Suitable for use in FC, IP, ELISA, Neut, FuncS, IF and most other immunological methods.

Storage

Store at -20°C for long-term storage. Store at 2-8°C for up to one month. Avoid freeze/thaw cycles.

ANTIGEN GENE INFORMATION

Gene Name

[CD40 CD40 molecule, TNF receptor superfamily member 5 \[Homo sapiens \]](#)

Official Symbol

CD40

Synonyms

CD40; CD40 molecule, TNF receptor superfamily member 5; TNFRSF5, tumor necrosis factor receptor superfamily, member 5; tumor necrosis factor receptor superfamily member 5; Bp50; p50; CD40L receptor; CD40 type II isoform; B cell-associated molecule; B cell surface antigen CD40; B-cell surface antigen CD40; CD40 antigen (TNF receptor superfamily member 5); tumor necrosis factor receptor superfamily, member 5; nerve growth factor receptor-related B-lymphocyte activation molecule; CDW40; TNFRSF5; MGC9013;

Gene ID

[958](#)

mRNA Refseq

[NM_001250](#)

Protein Refseq

[NP_001241](#)

MIM

[109535](#)

UniProt ID

P25942

Chromosome Location

20q12-q13.2

Pathway

Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem;

Function

enzyme binding; protein binding; receptor activity; signal transducer activity;