

Product Datasheet

CD40 antibody (orb1152478)

Description

Rat monoclonal antibody to CD40

Species/Host

Rat

Reactivity

Mouse

Conjugation

Unconjugated

Tested

FA, FC, WB

Applications
Immunogen

The original rat IgG2a antibody was raised against the recombinant mouse CD40 fusion protein.

Target

CD40

Preservatives

PBS with 0.02% Proclin 300.

Concentration

1 mg/ml

Storage

Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Note

For research use only

Application notes

FGK45 is an agonistic antibody that has been shown to activate CD40 expressing antigen presenting cells (APCs) what might promote anti-tumor T cell responses. For instance, the rat IgG2a version of this antibody was used to promote maturation of APCs what improved the ability of the macrophages to fight a tumour (Luheshi et al., 2016; pmid: 26918344). Another group used the same antibody to stimulate T-cells in a study on a tumor vaccine (Bartkowiak et al., 2015; pmid: 26351680). Others used this clone as well to induce potent anti-tumor activity (Carmi et al., 2015; pmid: 25924063). On the other hand, it can also be used to inhibit CD40/CD154 interaction in vitro and in vivo. Furthermore, this clone can be also utilized to identify CD40-positive cells by flow cytometry (Rolink et al., 1996; pmid: 8885865). Administering this antibody can be also utilized to induce inflammatory bowel disease-like characteristics and create a mouse IBD model to study this class of diseases (Bauche et al., 2018; pmid: 30097293).

Isotype

IgG2a

Clonality

Monoclonal

Purity

Purified