

Product datasheet for AM08042LE-N

Cd40 Rat Monoclonal Antibody [Clone ID: 1C10]

Product data:

Product Type: Primary Antibodies

Clone Name: 1C10

Applications: FC, FN, IP

Recommended Dilution: Flow Cytometry. (Ref.2)

Immunoprecipitation. (Ref.2)

Functional Assay: In vitro induction of proliferation of mature B lymphocytes. (Ref.2)

Reactivity: Mouse

Host: Rat

Isotype: IgG2a

Clonality: Monoclonal

Specificity: This antibody is specific to Mouse CD40 (Mr. 45-50 kDa)

Formulation: PBS containing no preservatives.

State: Low Endotoxin

State: Liquid purified Ig fraction.

Concentration: lot specific

Conjugation: Unconjugated

Storage: Store the antibody undiluted (in aliquots) at -20°C.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: CD40 antigen

Database Link: Entrez Gene 21939 Mouse

P27512



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Cd40 Rat Monoclonal Antibody [Clone ID: 1C10] - AM08042LE-N

Background:

CD40 is a type I cell surface protein belonging to the tumor necrosis factor superfamily of cell surface receptors. In mice it is expressed on B lineage cells, follicular dendritic cells, thymic epithelium, and interdigitating cells in the T-cell zone of secondary lymphoid organs. (Ref.1-5) CD40 first becomes detectable on a subset of small pre-B II cells in bone marrow, with the levels of CD40 expression increasing thereafter during B-cell maturation. Immature B cells (IgM+IgDloB220lo) express intermediate levels of CD40, whereas mature B cells (IgM+IgDhiB220hi) express high levels. (Ref.4) CD40 has a central role in B cell growth and differentiation, and signalling through CD40 in combination with IL-4 reportedly induces immunoglobulin isotype switching and secretion of IgE. (Ref.6)

The agonistic 1C10 antibody closely resembles gp39/CD40 ligand in its ability to stimulate proliferation of small, resting B lymphocytes in the absence of other cofactors. (Ref.2)

Synonyms:

TNFRSF5, CDw40, Bp50