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Datasheet for ABIN6941187  
**anti-CD40 antibody (AA 29-107)**

4 Images

### Overview

Quantity:	100 µg
Target:	CD40
Binding Specificity:	AA 29-107
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD40 antibody is un-conjugated
Application:	Flow Cytometry (FACS), ELISA, Immunohistochemistry (IHC), Staining Methods (StM), Coating (Coat)

### Product Details

Immunogen:	Recombinant fragment of human CD40 protein (around aa 29-107) (exact sequence is proprietary)
Clone:	C40-2383
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

### Target Details

Target:	CD40
Alternative Name:	CD40 ( <a href="#">CD40 Products</a> )

## Target Details

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**Background:** CD40 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. CD40 is expressed on B-lymphocytes, follicular dendritic cells, bone marrow-derived dendritic cells, thymic epithelium, and interdigitating cells in the T-cell zones of secondary lymphoid organs.

**Molecular Weight:** 43kDa

**Gene ID:** 958

**UniProt:** [P25942](#)

**Pathways:** [NF-kappaB Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [M Phase](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Cancer Immune Checkpoints](#)

## Application Details

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**Application Notes:** Positive Control: U2OS, L-428 cells. Tonsil, Spleen or Thymus.  
Known Application: ELISA (For coating, order antibody without BSA),Flow Cytometry (1-2 µg/million cells),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

**Restrictions:** For Research Use only

## Handling

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**Concentration:** 200 µg/mL

**Buffer:** 10 mM PBS with 0.05 % BSA & 0.05 % azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

## Handling

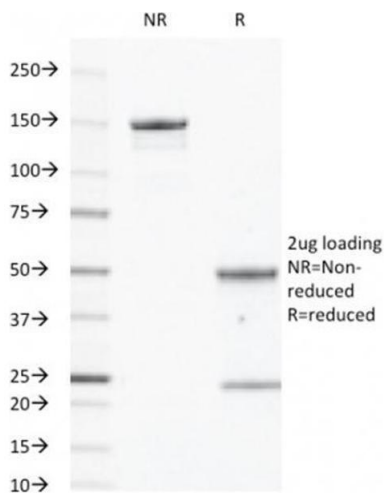
should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

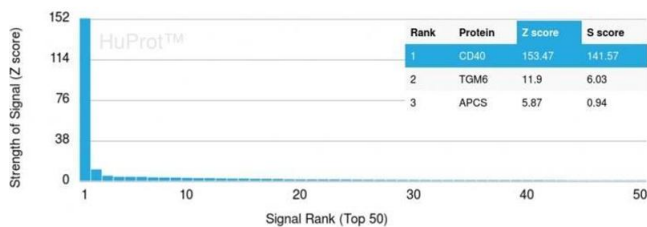
Expiry Date: 24 months

## Images



### SDS-PAGE

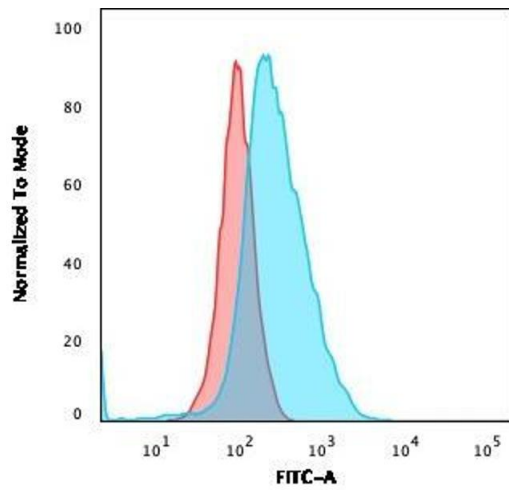
**Image 1.** SDS-PAGE Analysis Purified CD40 Mouse Monoclonal Antibody (C40/2383). Confirmation of Integrity and Purity of Antibody.



### Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using CD40 Mouse Recombinant Monoclonal Antibody (C40/2383) Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with

a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



### Flow Cytometry

**Image 3.** Flow Cytometric Analysis of U2OS cells using CD40 Mouse Monoclonal Antibody (C40/2383) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6941187.