

Datasheet for ABIN4886526
anti-CD40 antibody (AA 20-193)



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3 Images

Overview

Quantity:	100 µg
Target:	CD40
Binding Specificity:	AA 20-193
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD40 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Tumor necrosis factor receptor superfamily member 5(CD40) detection. Tested with WB, IHC-P, ELISA in Mouse.
Immunogen:	E. coli-derived mouse CD40/TNFRSF5 recombinant protein (Position: L20-R193). Mouse CD40/TNFRSF5 shares 60.7% amino acid (aa) sequence identity with human CD40/TNFRSF5.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Tumor necrosis factor receptor superfamily member 5(CD40) detection. Tested with WB, IHC-P, ELISA in Mouse.</p> <p>Gene Name: CD40 Molecule, TNF receptor superfamily member 5</p> <p>Protein Name: Tumor necrosis factor receptor superfamily member 5</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	CD40
Alternative Name:	CD40 (CD40 Products)
Background:	<p>CD40 is a cell surface receptor that is expressed on the surface of all mature B cells and also expressed on monocytes, dendritic cells, and thymic epithelium. It is a member of the tumor necrosis factor (TNF) receptor superfamily and is the receptor for CD40 ligand. CD40 ligand (CD40L, CD154, gp39, and TRAM) belongs to the TNF gene family and is expressed more widely than CD40 predominantly on activated CD4+ T cells. Activation of CD40 has also been shown to inhibit the growth of certain B cell lymphomas and to induce the death of transformed cells of mesenchymal or epithelial origin.</p> <p>Synonyms: B cell associated molecule CD40 B cell surface antigen CD40 B-cell surface antigen CD40 Bp50 CD40 antigen CD40 Molecule CD40 protein CD40 type II isoform CD40L receptor CDw40 TNFRSF5 TNFR5 GP39 HIGM1 P25942</p>
Gene ID:	21939
UniProt:	P27512
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

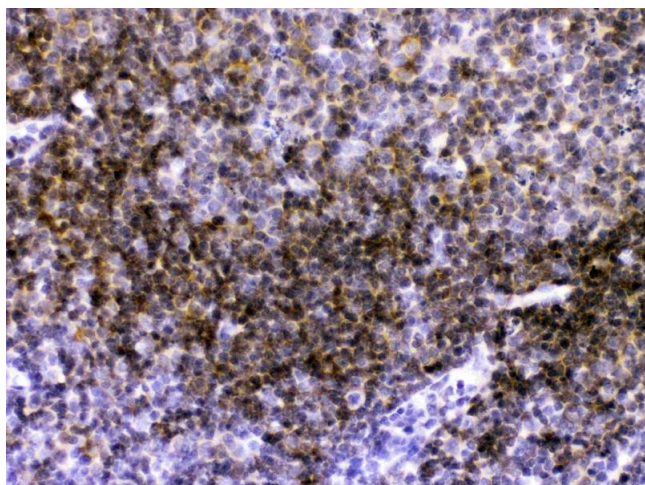
Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>ELISA: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

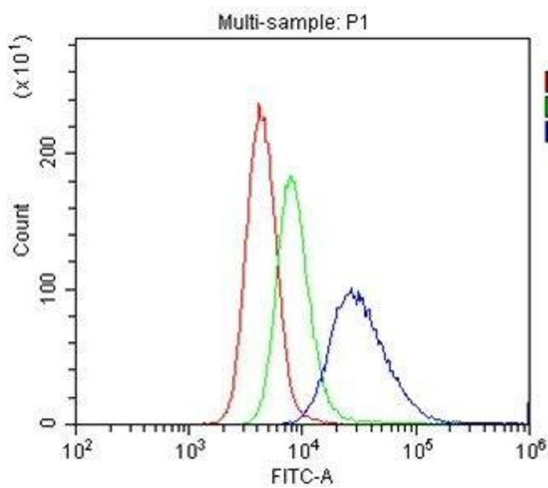
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



Immunohistochemistry

Image 1. CD40/TNFRSF5 was detected in paraffin-embedded sections of mouse lymphaden tissues using rabbit anti- CD40/TNFRSF5 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Flow Cytometry

Image 2. Flow Cytometry analysis of U937 cells using anti-CD40/TNFRSF5 antibody. Overlay histogram showing U937 cells stained with (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD40/TNFRSF5 Antibody (1 μ g/1x10⁶ cells) for 30 min at 20°C. DyLight[®]488 conjugated goat anti-rabbit IgG (BA1127, 5-10 μ g/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 μ g/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



Western Blotting

Image 3. Western blot analysis of CD40/TNFRSF5 expression in mouse spleen extract (Lane 1). CD40/TNFRSF5 at 40KD was detected using rabbit anti-CD40/TNFRSF5 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).