

Rabbit Anti-Human CD27 Molecule Monoclonal Antibody

Cat. No. CAB11497RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Rabbit monoclonal antibody to human CD27 molecule.

Species Human

Source Rabbit

Antigen Description

CD27, also known as TNFRSF7, is a member of the TNF-receptor superfamily limited to cells of the lymphoid lineage, and exists as both a dimeric glycoprotein on the cell surface and as a soluble protein in serum. As a T and B cell co-stimulatory molecule, the activity of CD27 is governed by its TNF-like ligand CD70 on lymphocytes and dendritic cells. The CD27-CD70 interaction is required for Th1 generation responses to differentiation signals and long-term maintenance of T cell immunity, and meanwhile, plays a key role in regulating B-cell differentiation, activation and immunoglobulin synthesis. The CD27 receptor transduces signals and subsequently leads to the activation of NF-kappaB and MAPK8/JNK, and during which, adaptor proteins TRAF2 and TRAF5 have been shown to mediate the signaling processes. In addition, a proapoptotic protein named SIVA, is capable of binding the cytoplasmic tail of CD27 and exerts action in the process of apoptosis.

Specificity

Human CD27 / TNFRSF7. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA. Mouse CD27, Human TNFRSF8 / CD30, Human 4-1BB, Human CD40, Human DR6, Human FAS, Human HVEM / TNFRSF14, Human TNFRI, Human TNFRII, Human BAFF, Human RELT, Mouse HVEM, Mouse FAS, Rat FAS, Human cell lysate (293 cell line).

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| Immunogen | Recombinant Human CD27 / TNFRSF7 Protein |
| Isotype | Rabbit IgG |
| Clone | 037 |
| Applications | Western Blot; ELISA |
| Dilution | <p>Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect Human CD27 in WB. Using a DAB detection system, the detection limit for Human CD27 is approximately 1 ng/lane under non-reducing. Use of this antibody under reducing conditions is not recommended. Direct ELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect Human CD27. The detection limit for Human CD27 is approximately 0.00975 ng/well.</p> |
| Preparation | This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human CD27 / TNFRSF7. |
| Format | 0.2 µm filtered solution in PBS with 5% trehalose |
| Storage | This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles. |
| GENE INFORMATION | |
| Gene Name | CD27 CD27 molecule [Homo sapiens] |

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| Official Symbol | CD27 |
| Synonyms | CD27; CD27 molecule; TNFRSF7,tumor necrosis factor receptor superfamily, member 7; CD27 antigen; S152; Tp55; CD27L receptor; T cell activation antigen S152; T-cell activation antigen CD27; tumor necrosis factor receptor superfamily, member 7; T14; TNFRSF7; MGC20393; |
| Gene ID | 939 |
| mRNA Refseq | NM_001242 |
| Protein Refseq | NP_001233 |
| MIM | 186711 |
| UniProt ID | P26842 |
| Chromosome Location | 12p13 |
| Pathway | Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; |
| Function | cysteine-type endopeptidase inhibitor activity involved in apoptotic process; protein binding; receptor activity; transmembrane signaling receptor activity; |

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