

## Product datasheet for **CF807683**

### CD40 Mouse Monoclonal Antibody [Clone ID: OTI5C9]

#### Product data:

|                        |                                                                                                                                                                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:          | Primary Antibodies                                                                                                                                                                                                                                                                                                                   |
| Clone Name:            | OTI5C9                                                                                                                                                                                                                                                                                                                               |
| Applications:          | IHC, WB                                                                                                                                                                                                                                                                                                                              |
| Recommended Dilution:  | WB 1:2000, IHC 1:150                                                                                                                                                                                                                                                                                                                 |
| Reactivity:            | Human                                                                                                                                                                                                                                                                                                                                |
| Host:                  | Mouse                                                                                                                                                                                                                                                                                                                                |
| Isotype:               | IgG2b                                                                                                                                                                                                                                                                                                                                |
| Clonality:             | Monoclonal                                                                                                                                                                                                                                                                                                                           |
| Immunogen:             | Human recombinant protein fragment corresponding to amino acids 21-166 of human CD40(NP_001241) produced in E.coli.                                                                                                                                                                                                                  |
| Formulation:           | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)                                                                                                                                                                                                                                                                    |
| Reconstitution Method: | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:          | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)                                                                                                                                                                                                                            |
| Conjugation:           | Unconjugated                                                                                                                                                                                                                                                                                                                         |
| Storage:               | Store at -20°C as received.                                                                                                                                                                                                                                                                                                          |
| Stability:             | Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                           |
| Gene Name:             | CD40 molecule                                                                                                                                                                                                                                                                                                                        |
| Database Link:         | <a href="#">NP_001241</a><br><a href="#">Entrez Gene 958 Human</a><br><a href="#">P25942</a>                                                                                                                                                                                                                                         |



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**Background:**

The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor has been found to be essential in 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. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

**Synonyms:**

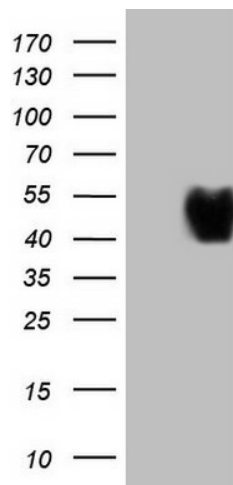
Bp50; CDW40; p50; TNFRSF5

**Protein Families:**

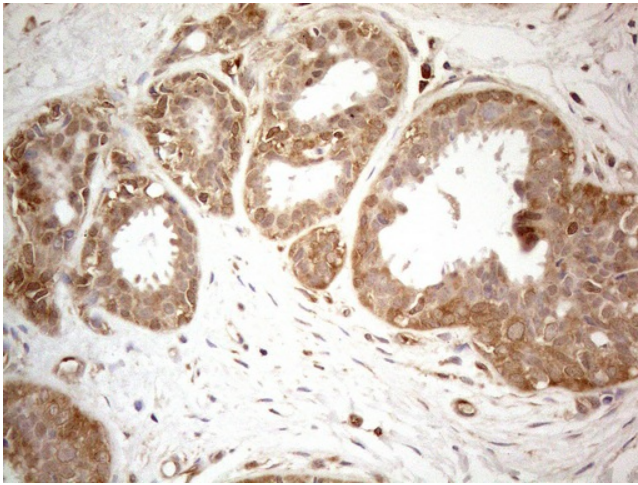
Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:**

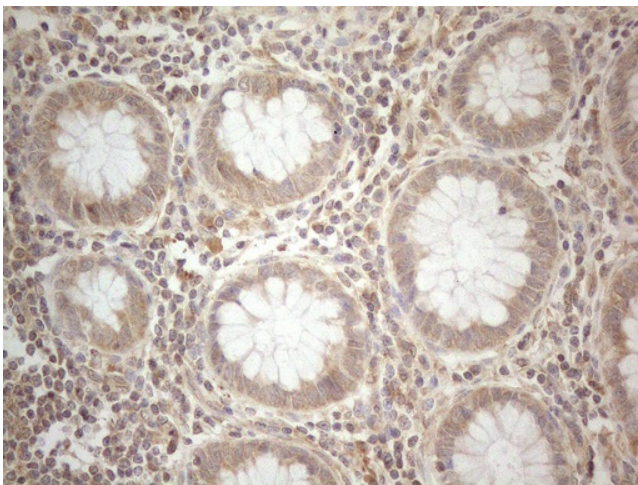
Allograft rejection, Asthma, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Cytokine-cytokine receptor interaction, Primary immunodeficiency, Systemic lupus erythematosus, Toll-like receptor signaling pathway, Viral myocarditis

**Product images:**

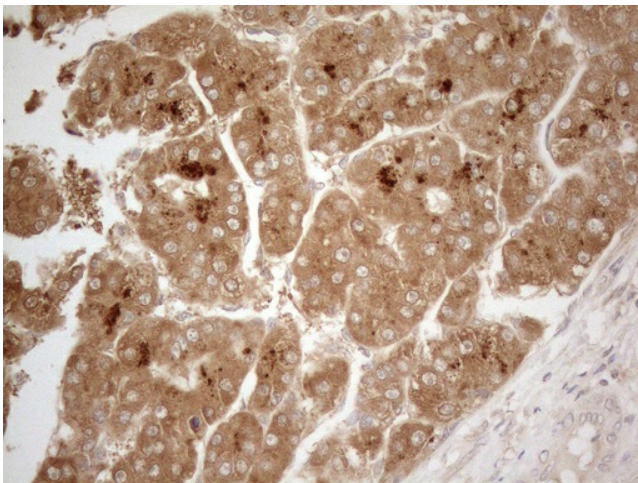
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD40 ([RC201977], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD40 (1:2000). Positive lysates [LY400500] (100ug) and [LC400500] (20ug) can be purchased separately from OriGene.



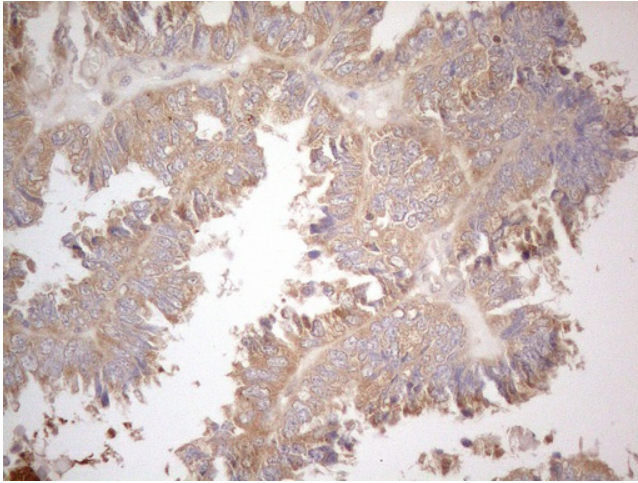
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-CD40 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA807683]) (1:150)



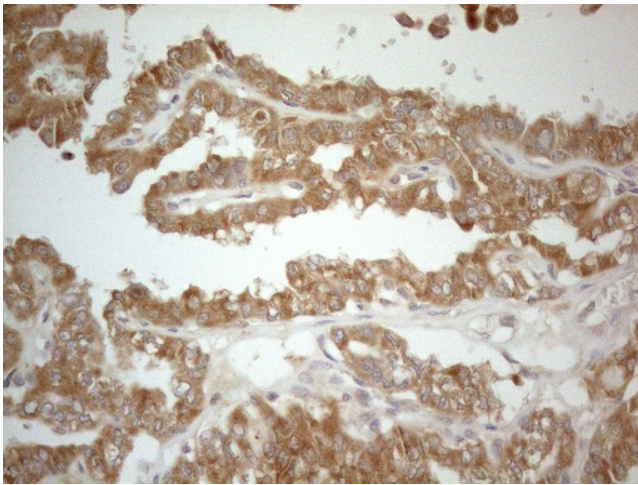
Immunohistochemical staining of paraffin-embedded Human colon tissue using anti-CD40 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA807683]) (1:150)



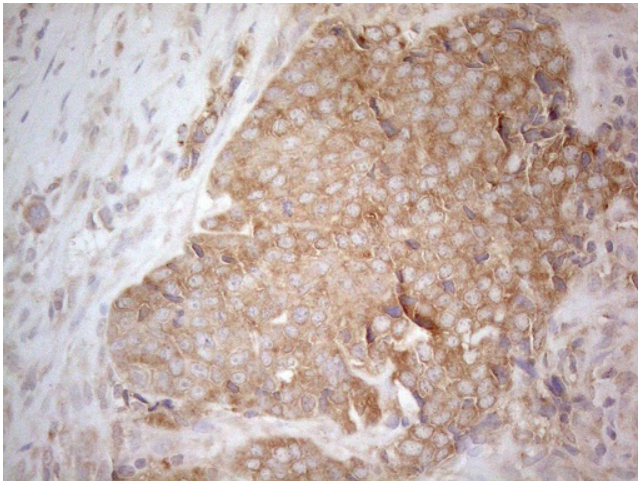
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-CD40 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA807683]) (1:150)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-CD40 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA807683]) (1:150)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-CD40 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA807683]) (1:150)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-CD40 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA807683]) (1:150)