

Product datasheet for **CF813213**

TNFSF9 Mouse Monoclonal Antibody [Clone ID: OTI3B6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3B6
Applications:	FC, WB
Recommended Dilution:	WB 1:1000, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CD137L (NP_003802) produced in HEK293T cell.
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.
Predicted Protein Size:	26.4 kDa
Gene Name:	TNF superfamily member 9
Database Link:	NP_003802 Entrez Gene 8744 Human P41273



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Background:

The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This transmembrane cytokine is a bidirectional signal transducer that acts as a ligand for TNFRSF9/4-1BB, which is a costimulatory receptor molecule in T lymphocytes. This cytokine and its receptor are involved in the antigen presentation process and in the generation of cytotoxic T cells. The receptor TNFRSF9/4-1BB is absent from resting T lymphocytes but rapidly expressed upon antigenic stimulation. The ligand encoded by this gene, TNFSF9/4-1BBL, has been shown to reactivate anergic T lymphocytes in addition to promoting T lymphocyte proliferation. This cytokine has also been shown to be required for the optimal CD8 responses in CD8 T cells. This cytokine is expressed in carcinoma cell lines, and is thought to be involved in T cell-tumor cell interaction. [provided by RefSeq, Oct 2008]

Synonyms:

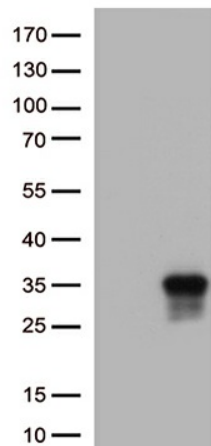
4-1BB-L; CD137L; TNLG5A

Protein Families:

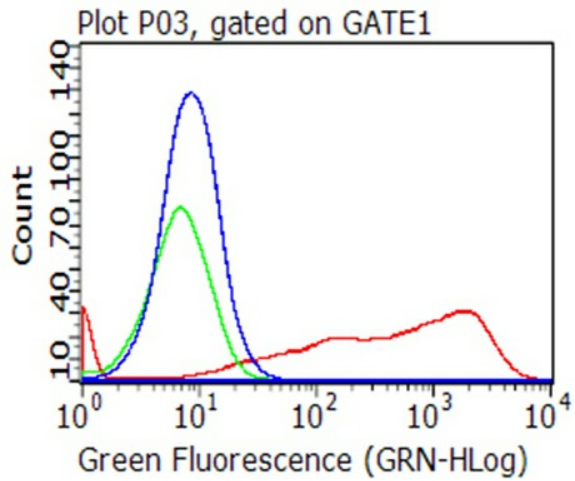
Druggable Genome, Transmembrane

Protein Pathways:

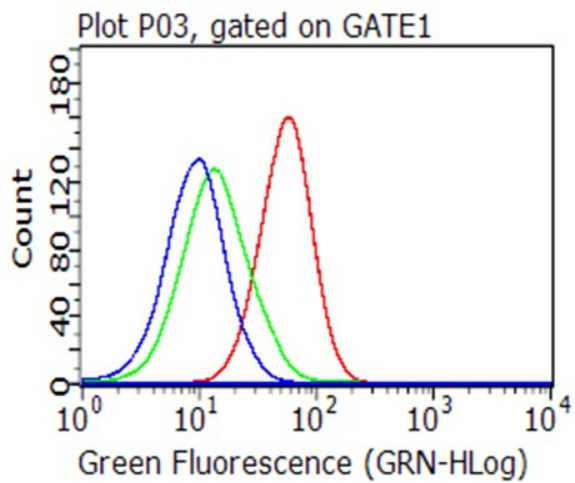
Cytokine-cytokine receptor interaction

Product images:

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD137L ([RC211160], 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-CD137L (1:1000).



Flow cytometric analysis of living 293T cells transfected with CD137L overexpression plasmid ([RC211160]), Red)/empty vector ([PS100001], Blue) using anti-CD137L antibody ([TA813213]). Cells incubated with a non-specific antibody (Green) were used as isotype control (1:100).



Flow cytometric analysis of living Raji cells, using anti-CD137L antibody ([TA813213], Red), compared to an isotype control (green), and a PBS control (blue) (1:100).