

**Anti-TNFRSF7 / CD27 Reference Antibody (varlilumab)
Recombinant Antibody
Catalog # APR10089****Specification**

Anti-TNFRSF7 / CD27 Reference Antibody (varlilumab) - Product Information

Application	FC, Kinetics, Animal Model
Primary Accession	P26842
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	145 KDa

Anti-TNFRSF7 / CD27 Reference Antibody (varlilumab) - Additional Information**Target/Specificity**
TNFRSF7 / CD27**Endotoxin**
< 0.001EU/ µg,determined by LAL method.**Conjugation**
Unconjugated**Expression system**
CHO Cell**Format**
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.**Anti-TNFRSF7 / CD27 Reference Antibody (varlilumab) - Protein Information****Name** CD27 ([HGNC:11922](#))**Function**
Costimulatory immune-checkpoint receptor expressed at the surface of T-cells, NK-cells and B-cells which binds to and is activated by its ligand CD70/CD27L expressed by B-cells (PubMed:28011863). The CD70-CD27 signaling pathway mediates antigen- specific T-cell activation and expansion which in turn provides immune surveillance of B-cells (PubMed:28011863). Mechanistically, CD70 ligation activates the TRAF2-PTPN6 axis that subsequently inhibits LCK phosphorylation to promote phenotypic and transcriptional adaptations of T-cell memory (PubMed:38354704). In addition, activation by CD70 on early progenitor cells provides a negative feedback signal to leukocyte differentiation during immune activation and thus modulates hematopoiesis (By similarity). Negatively regulates the function of Th2 lymphocytes in the adipose tissue (By

similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

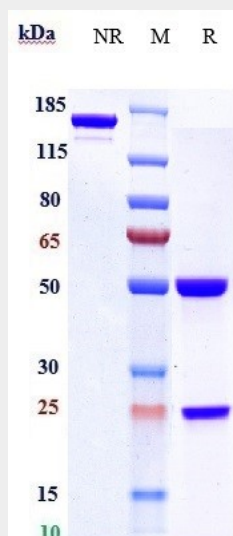
Found in most T-lymphocytes.

Anti-TNFRSF7 / CD27 Reference Antibody (varlilumab) - Protocols

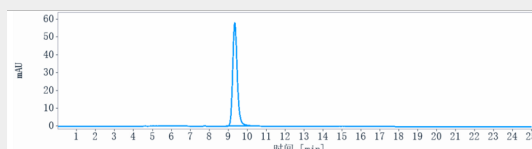
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

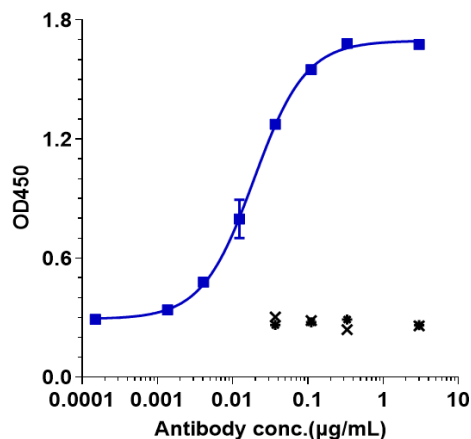
Anti-TNFRSF7 / CD27 Reference Antibody (varlilumab) - Images



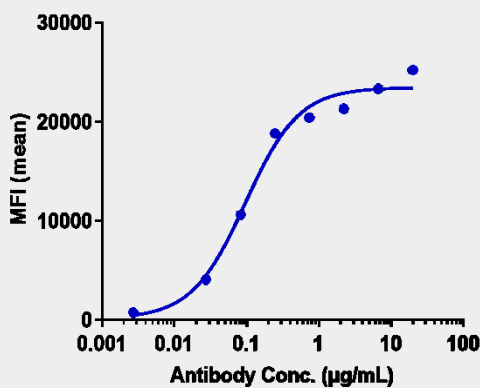
Anti-TNFRSF7 / CD27 Reference Antibody (varlilumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-TNFRSF7 / CD27 Reference Antibody (varlilumab) is more than 100%, determined by SEC-HPLC.



Immobilized human CD27 FC at 2 µg/mL can bind Anti-TNFRSF7 / CD27 Reference Antibody (varlilumab) $EC_{50}=0.01912$ µg/mL



HumanCD27 HEK293 cells were stained with Anti-TNFRSF7 / CD27 Reference Antibody (varlilumab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, $EC_{142}=0.095$ ug/mL