CD27 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD27, Monoclonal Antibody
Full Product Name	ER780 Anti-Human CD27 Antibody [O323]
Product Gene Name	anti-CD27 antibody
Product Synonym Names	CD27L receptor; T-cell activation antigen CD27; T14; S152; TNFRSF7
Clonality	Monoclonal
Isotype	Mouse IgG1, kappa
Clone Number	O323
Host	Mouse
Species Reactivity	Human
Form/Format	PBS with 0.05% Proclin300, 1% BSA
Preparation and Storage	Store at 2~8 degree C and protected from prolonged exposure to light. Do not freeze.
Matching Pairs	Antibody: CD27 (MBS2568378) Isotype Control: IgG1,kappa Clone #MOPC-21 (MBS2568230)
Molecular Weight	29,137 Da
OMIM	186711
3D Structure	ModBase 3D Structure for P26842
Conjugation	ER780
Product Categories/Family for anti-CD27 antibody	FC_Antibody; FCM Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD27 antibody	Flow Cytometry (FC/FACS/FCM)
Related Product Information for anti-CD27 antibody	CD27 is a 50-55 kD type I membrane protein also known as S152 and T14. It is a lymphocyte-specific member of the TNF-receptor superfamily. CD27 is expressed on medullary thymocytes, virtually all mature T cells, some B cells, and NK cells. CD27 binds to CD70 and plays an important role in costimulation of T cell activation, and regulation of B cell differentiation and proliferation. The cytoplasmic domains of CD27 have also been shown to interact with TRAF2 and TRAF5 to elicit NF-kappaB and SAPK/JNK activation.
Other Notes	Small volumes of anti-CD27 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD27 purchase	MBS2568378 is an antibody targeting CD27. Also known as ER780 Anti-Human CD27 Antibody [O323]. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD27. It may not necessarily be applicable to this product.

NCBI GI #	4507587

NCBI GeneID	939
NCBI Accession #	NP_001233.1
UniProt Primary Accession #	P26842
UniProt Secondary Accession #	B2RDZ0
UniProt Related Accession #	P26842
GenBank Nucleotide #	NM_001242.4
NCBI Official Full Name	CD27 antigen
NCBI Official Synonym Full Names	CD27 molecule
NCBI Official Symbol	CD27
NCBI Official Synonym Symbols	T14; S152; Tp55; TNFRSF7; S152. LPFS2
UniProt Protein Name	CD27 antigen
UniProt Synonym Protein Names	CD27L receptor; T-cell activation antigen CD27; T14; Tumor necrosis factor receptor superfamily member 7
Protein Family	CD27 antigen
UniProt Gene Name	CD27
UniProt Synonym Gene Names	TNFRSF7
UniProt Entry Name	CD27_HUMAN
NCBI Protein Information	CD27 antigen; CD27L receptor; T cell activation antigen S152; T-cell activation antigen CD27; tumor necrosis factor receptor superfamily, member 7
NCBI Summary for CD27	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is required for generation and long-term maintenance of T cell immunity. It binds to ligand CD70, and plays a key role in regulating B-cell activation and immunoglobulin synthesis. This receptor transduces signals that lead to the activation of NF-kappaB and MAPK8/JNK. Adaptor proteins TRAF2 and TRAF5 have been shown to mediate the signaling process of this receptor. CD27-binding protein (SIVA), a proapoptotic protein, can bind to this receptor and is thought to play an important role in the apoptosis induced by this receptor. [provided by RefSeq, Jul 2008]
UniProt Comments for CD27	CD27: Receptor for CD70/CD27L. May play a role in survival of activated T-cells. May play a role in apoptosis through association with SIVA1. Protein type: Membrane protein, integral; Apoptosis; Receptor, cytokine Chromosomal Location of Human Ortholog: 12p13 Cellular Component: integral to plasma membrane; extracellular region; external side of plasma membrane Molecular Function: protein binding; transmembrane receptor activity; caspase inhibitor activity Biological Process: release of cytoplasmic sequestered NF-kappaB; response to ethanol; cell surface receptor linked signal transduction; positive regulation of JNK cascade; positive regulation of B cell differentiation; negative regulation of caspase activity; immunoglobulin mediated immune response; negative regulation of apoptosis Disease: Lymphoproliferative Syndrome 2
Research Articles on CD27	**1.** Data indicate a unique expansion of CD27(high) plasmablasts in both the cerebrospinal fluid and periphery of transverse myelitis (TM). patients
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