

For Research Use Only

Rat CD27/TNFRSF7 Recombinant monoclonal antibody, PBS Only

Catalog Number:87691-3-PBS



Basic Information

Catalog Number: 87691-3-PBS	GenBank Accession Number: NM_001024335.1	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 500318	CloneNo.: 253071D4
Source: Rabbit	UNIPROT ID: Q501W2	
Isotype: IgG	Full Name: CD27 molecule	
Immunogen Catalog Number: EG5288	Calculated MW: 28 kDa	
	Observed MW: 50 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
rat

Background Information

Rat CD27 (TNFRSF7) is a member of the tumor necrosis factor receptor superfamily (TNFRSF). It is a type I transmembrane glycoprotein primarily expressed on the surface of T lymphocytes, B cells, and natural killer (NK) cells. As an important T cell co-stimulatory molecule, CD27 binds to its ligand, CD70. This interaction recruits TRAF2/5, activating the NF- κ B and JNK signaling pathways, which promotes T cell proliferation, differentiation, and survival while inhibiting apoptosis. The expression level of CD27 serves as a crucial marker for T cell activation and memory status, and soluble CD27 (sCD27) can act as a clinical marker of immune activation. In cancer immunotherapy, CD27 is a significant target. Agonistic antibodies, such as Varlilumab, can enhance anti-tumor T cell responses and have entered clinical trials.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

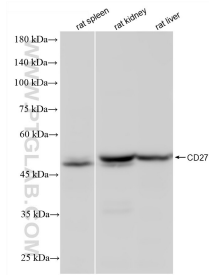
For technical support and original validation data for this product please contact:

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87691-3-RR (CD27/TNFRSF7 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87691-3-PBS in a different storage buffer formulation.