

## Product datasheet for **TP726610**

### Rhesus Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Rhesus Macaque CD47 (N-6His-Flag)
Species:	Rhesus
Expression cDNA Clone or AA Sequence:	Gln19-Glu141
Tag:	N-6His-Flag
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH7.4.
Note:	Recombinant Rhesus macaque Leukocyte Surface Antigen CD47 is produced by our Mammalian expression system and the target gene encoding Gln19-Glu141 is expressed with a 6His, Flag tag at the N-terminus.
Stability:	12 months from date of despatch
Summary:	CD47, also known as Integrin-Associated Protein (IAP) and OA3, is a glycosylated atypical member of the immunoglobulin superfamily. Mouse CD47 is an integral membrane protein that consists of a extracellular domain (ECD) with a single Ig-like domain, five membrane-spanning regions with short intervening loops, and C-terminal cytoplasmic tail. CD47 has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. It plays an important role in memory formation and synaptic plasticity in the hippocampus. As a receptor for SIRPA, it binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cellcell adhesion, it enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. It may play a role in membrane transport and/or integrin dependent signal transduction. It also prevents premature elimination of red blood cells.



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