

## Product datasheet for **TP727553**

### Sirpa Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Signal-Regulatory Protein $\alpha$ 1/SIRPA/CD172a (C-Fc)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Lys32-Asn372
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Mouse Signal-Regulatory Protein alpha 1 is produced by our Mammalian expression system and the target gene encoding Lys32-Asn373 is expressed with a Fc tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	19261
UniProt ID:	<a href="#">P97797</a>
Summary:	Mouse Signal Regulatory Protein $\alpha$ 1 (SIRP $\alpha$ 1) is a type I transmembrane glycoprotein. It contains two Ig-like C1-type domains and one Ig-like V-type domain. Mouse SIRP alpha ECD shares 61%, 75%, 62%, 61%, and 59% aa sequence identity with human, rat, equine, bovine, and porcine SIRP alpha, respectively. SIRP $\alpha$ 1 can express in various tissues, mainly on brain and myeloid cells, including macrophages, neutrophils, dendritic and Langerhans cells. It also can detect in neurons, smooth muscle and endothelial cells. SIRPA is an immunoglobulin-like cell surface receptor for CD47. SIRP $\alpha$ 1 acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRP $\alpha$ 1 shows adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. SIRP $\alpha$ 1 engagement generally produces a negative regulatory signal; it may mediate negative regulation of phagocytosis, mast cell activation and dendritic cell activation



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