

## 32-8827: Recombinant Mouse Signal-Regulatory Protein $\alpha$ -1/SIRPA/CD172a (C-Fc)

**Gene :** Sirpa  
**Gene ID :** 19261  
**Uniprot ID :** Q6P6I8

### Description

Source: Human cells.  
MW :65.1kD.

Recombinant Mouse Signal-Regulatory Protein  $\alpha$  1 is produced by our Mammalian expression system and the target gene encoding Lys32-Asn372 is expressed with a Fc tag at the C-terminus. Mouse Signal Regulatory Protein  $\alpha$  (SIRPa) 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. SIRPa 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. SIRPa acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPa shows adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. SIRPa engagement generally produces a negative regulatory signal; it may mediate negative regulation of phagocytosis, mast cell activation and dendritic cell activation

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g  
**Content :** Lyophilized from a 0.2  $\mu$ m filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** KELKVTQPEKSVSAAGDSTVLNCTLTSLLPVGPIRWYRGVGPSRLLIYSFAGEYVPRIRNVSDTTKRNNMDFSI  
RISNVTPADAGIYYCVKFQKGSSEPDTIQSGGGTEVYVLAKSPPEVSGPADRGIPDQKVNFTCKSHGFSPRNI  
TLKWFKDGQELHPLETTVNP SGKNVSYNISSTVRVVLNSMDVNSKVICEVAHITLDRSPLRGIANLSNFIRVSPT  
VKVTQQSPTSMNQVNLTCRAERFYPEDLQLIWLENGNVSRNDTPKNLTKNTDGTYNTSLFLVNSSAHREDVV  
FTCQVKHDQQPAITRNHTVLGFAHSSDQGSMTFPDNNATHNWNVDDIEGRMDEPKSCDKTHTCPPCPAPE  
LLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLT  
VLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEW  
ESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.