

## Product datasheet for **TP725143**

### SIRP alpha (SIRPA) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human SIRP alpha/CD172a (C-His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Glu31-Arg370
Tag:	C-6His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4
Note:	Recombinant Human SIRP alpha is produced by our Mammalian expression system and the target gene encoding Glu31-Arg370 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	140885
UniProt ID:	<a href="#">P78324</a>
Summary:	Signal regulatory protein alpha (SIRP $\alpha$ ) is a monomeric type I transmembrane glycoprotein, that belongs to the SIRP/SHPS (CD172) family of the immunoglobulin superfamily. SIRP $\alpha$ can express in a variety of tissues, mainly in brain and myeloid cells, such as macrophages, neutrophils, dendritic and Langerhans cells. It is also found in neurons, smooth muscle and endothelial cells. SIRP $\alpha$ is an immunoglobulin-like cell surface receptor for CD47. Its binding to CD47 prevents the maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. SIRP $\alpha$ also acts as a docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRP $\alpha$ holds the adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment and may play a critical role in intracellular signaling during synaptogenesis and in synaptic function.



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