

## Data Sheet

### **SIRP- $\alpha$ (CD172a), His-tag**

Human, recombinant, C-terminal His-tag

Catalog #: w81156

Lot #: 140331      Conc.: 2.15 mg/ml

**Formulated in:** 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.4 mM KCl, and 20% glycerol.

**Stability:** >6 months at  $-80^{\circ}\text{C}$ . Avoid freeze-thaw cycles.

#### **References:**

1. Hatherley, D., *et al.*, *Mol. Cell*, 2008, **31**:266-77
2. Baba, N., *et al.*, *J. Exp. Med.*, 2013, **210**(6):1251-63

**Description:** Signal regulatory protein-alpha (SIRP- $\alpha$ ), also known as Tyrosine-protein phosphatase non-receptor type substrate 1, CD172a, Bit, and MyD-1, GenBank Accession No. NP\_542970, a.a. 27-370, with C-terminal His-tag, MW 38.4 kDa\*, expressed in a HEK293 expression system. This protein acts as a receptor for CD47; a.a. 27-370 correspond to the extracellular portion of SIRP- $\alpha$ . \*Note: SIRP- $\alpha$  is heavily glycosylated, resulting in apparent higher molecular weight.

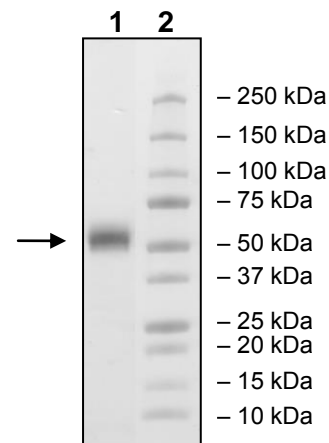
**Application:** Useful for studying protein binding and screening small molecules.

## **Quality Assurance**

### **4-20% SDS-PAGE** **Coomassie staining**

**Lane 1:**  
2.7  $\mu\text{g}$  SIRP- $\alpha$   
**Lane 2:**  
Protein Marker

**MW:** 38.4 kDa  
**Purity:**  $\geq 90\%$



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**Protein Sequence**

GVAGEEELQVIQPKSVLVAAGETATLRCTATSLIPVGPIQWFRGAGPGRELIYNQKEG  
HFPRVTTVSDLTKRNNMDFSIRIGNITPADAGTYCYVKFRKGGSPDDVEFKSGAGTELSV  
RAKPSAPVVSGPAARATPQHTVSFTCESHGFSPRDITLKWFKNGNELSDFQTNVDPVG  
ESVSYSIHSTAKVVLTRADVHSQVICEVAHVTLQGDPLRGTANLSETIRVPPTLEVTQQP  
VRAENQVNVTCQVRKFYPQRLQLTWLENGNVSRTETASTVTENKDGTYNWMSWLLVN  
VSAHRDDVKLTCQVEHDGQPAVSKSHDLKVS AHPKEQGSNTAAENTGSNER **HHHHHH**

Black: SIRP $\alpha$  (a.a. 27-370)

Red: His(6x)

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