

## Anti-SIRP alpha [12G6] Bulk Size Ab03881-10.0-BT

**Isotype and Format:** Human IgG1, Kappa

**Clone Number:** 12G6

**Alternative Name(s) of Target:** CD172a; SIRP $\alpha$ ; SIRPA; Signal regulatory protein  $\alpha$ ; Signal regulatory protein alpha; Tyrosine-protein phosphatase non-receptor type substrate 1; SHP substrate 1; SHPS-1; Brain Ig-like molecule with tyrosine-based activation motifs; Bit; CD172 antigen-like family member A; Inhibitory receptor SHPS-1; Macrophage fusion receptor; MyD-1 antigen; Signal-regulatory protein alpha-1; Sirp-alpha-1; Signal-regulatory protein alpha-2; Sirp-alpha-2; Signal-regulatory protein alpha-3; Sirp-alpha-3; p84

**UniProt Accession Number of Target Protein:** P78324

**Published Application(s):** Block, ELISA, FC

**Published Species Reactivity:** Human, Cynomolgus Monkey

**Immunogen:** The original antibody was generated by immunizing BALB/c mice with recombinant human SIRP $\alpha$ -hFc fusion protein.

**Specificity:** This antibody binds human and cynomolgus monkey SIRP alpha, which is a regulatory membrane glycoprotein and an immunoglobulin-like cell surface receptor for CD47. This protein plays a key role in intracellular signaling during synaptogenesis and in synaptic function. Cancer cells highly express CD47 that activates SIRP $\alpha$  and inhibit macrophage-mediated destruction.

**Application Notes:** The binding reactivity of this antibody towards recombinant human SIRP $\alpha$ -his fusion protein was checked using ELISA. Flow cytometry was used to detect the binding of the antibody to SIRP $\alpha$  on the membrane of human and cynomolgus monkey SIRP $\alpha$  overexpressed cells. This antibody binds cynomolgus monkey SIRP $\alpha$  with a weaker binding affinity than human SIRP $\alpha$ . This antibody can effectively block the binding of CD47 protein to cell surface SIRP $\alpha$  (CN110734897).

**Antibody First Published in:** [PMID:](#)

**Note on publication:**

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer

storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.