

## Anti-SIRP alpha [12G6] Standard Size Ab03881-3.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted mouse IgG2b Fc Silent™ antibody, based on the original mouse IgG2b format, created for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2b, [Fc Silent™](#), Kappa

**Clone Number:** 12G6

**Alternative Name(s) of Target:** CD172a; SIRPα; SIRPA; Signal regulatory protein α; 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 SIRPα-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 SIRPα and inhibit macrophage-mediated destruction.

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

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

**Note on publication:**

## Product Form

**Size:** 100 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. 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.