

ANTIBODIES AGAINST SIGNAL-REGULATORY PROTEIN ALPHA AND METHODS OF USE

ABSTRACT

Provided herein, *inter alia*, are isolated antibodies that bind an extracellular domain of a human SIRP- α v1 polypeptide (e.g., the D1 domain), an extracellular domain of a human SIRP- α v2 polypeptide, or both. In some embodiments, the antibodies also bind an extracellular domain of a monkey SIRP- α polypeptide, an extracellular domain of a mouse SIRP- α polypeptide, an extracellular domain of a human SIRP- β polypeptide, and/or an extracellular domain of a human SIRP- γ polypeptide. In some embodiments, the antibodies block or do not binding between an extracellular domain of a human SIRP- α polypeptide and an IgSF domain of a human CD47 polypeptide, while in some embodiments, the antibodies reduce the affinity of a human SIRP- α polypeptide for binding an IgSF domain of a human CD47 polypeptide. Further provided herein are methods, polynucleotides, vectors, and host cells related thereto.

[FIG. 16]