

SIRP gamma Protein, Cynomolgus (HEK293, Fc)

Cat. No.:	HY-P77488
Synonyms:	Signal-Regulatory Protein Gamma; CD172 Antigen-Like Family Member B; Signal-Regulatory Protein Beta-2; SIRP-b2; SIRP-Beta-2; CD172g; SIRPG; SIRPB2
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_028684116 (M1-H360)
Gene ID:	716034
Molecular Weight:	69-79 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SIRP gamma (SIRPG), a member of signal-regulatory protein (SIRP) family, is the only SIRP detected on T cells and activated NK cells. It emerges as a immunoglobulin-like cell surface receptor, demonstrating its role in mediating cell-cell adhesion upon binding with CD47. This interaction is pivotal in enhancing antigen-specific T-cell proliferation and providing costimulatory signals for T-cell activation. As a result, SIRP gamma engages with CD47 on antigen-presenting cells, highlighting its involvement in modulating immune responses. SIRP gamma-CD47 interaction mediates strong cell-cell adhesion and supports T cell-APC contact, enhancing antigen presentation and consequent T-cell proliferation and cytokine secretion ^[1] .
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Caution: Product has not been fully validated for medical applications. For research use only.

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