

Anti-CD47 Monoclonal Antibody

Product Details

Ig Type:	Rabbit monoclonal IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	150 kDa
Purification:	Protein A Affinity Purified

Applications

Verified Activity:	Flow cytometry analysis of CD47 overexpressed 293F cells with TMAZ-0052BI, followed by goat anti-rabbit IgG-ABflo 647 (red). The isotype control is rabbit IgG (black line).
Application:	ELISA,FCM
Recommended	0.1-0.2 µg/10E6 cells for FCM; 1 ng/µl for ELISA

Properties

Purity:	> 95% as determined by SDS-PAGE.
Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	CD47
Antigen Species:	Human
Gene ID:	961
Uniprot ID:	Q08722
Synonyms:	Integrin-associated protein;Leukocyte surface antigen CD47;Antigenic surface determinant protein OA3;Protein MER6
Biology Area:	Immunology Research

Research Background

Adhesive protein that mediates cell-to-cell interactions (PubMed: 11509594, PubMed: 15383453). Acts as a receptor for thrombospondin THBS1 and as modulator of integrin signaling through the activation of heterotrimeric G proteins (PubMed: 19004835, PubMed: 7691831, PubMed: 8550562). Involved in signal transduction, cardiovascular homeostasis, inflammation, apoptosis, angiogenesis, cellular self-renewal, and immunoregulation (PubMed: 11509594, PubMed: 15383453, PubMed: 19004835, PubMed: 27742621, PubMed: 32679764, PubMed: 7691831, PubMed: 8550562). Plays a role in modulating pulmonary endothelin EDN1 signaling (PubMed: 27742621). Modulates nitrous oxide (NO) signaling, in response to THBS1, hence playing a role as a pressor agent, supporting blood pressure (By similarity). Plays an important role in memory formation and synaptic plasticity in the hippocampus (By similarity). Receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells (PubMed: 11509594). Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation (PubMed: 15383453). Positively modulates FAS-dependent apoptosis in T-cells, perhaps by enhancing FAS

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(By similarity). Plays a role in suppressing angiogenesis and may be involved in metabolic dysregulation during normal aging (PubMed: 32679764). In response to THBS1, negatively modulates wound healing (By similarity). Inhibits stem cell self-renewal, in response to THBS1, probably by regulation of the stem cell transcription factors POU5F1/OCT4, SOX2, MYC/c-Myc and KLF4 (By similarity). May play a role in membrane transport and/or integrin dependent signal transduction (PubMed: 7691831). May prevent premature elimination of red blood cells (By similarity)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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