Human CRELD1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 842314

Catalog Number: MAB3128

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CRELD-1 in ELISA.
Source	Monoclonal Mouse IgG_{2B} Clone # 842314
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CRELD-1 Gln30-Glu362 Accession # Q96HD1
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

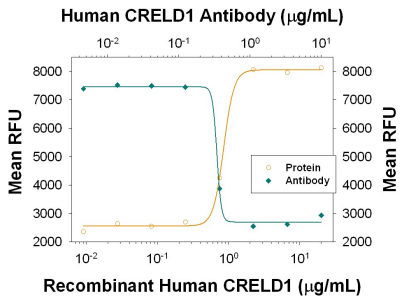
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Neutralization	Measured by its ability to neutralize CRELD1-mediated adhesion of the ATDC5 mouse chondrogenic cell line. The Neutralization Dose (ND_{50}) is typically 0.15-0.75 µg/mL in the presence of 2 µg/mL Recombinant Human CRELD1.

DATA

Neutralization



Cell Adhesion Mediated by CRELD1 and Neutralization by Human CRELD1 Antibody. Recombinant Human CRELD1 (Catalog # 3128-CR), immobilized onto a microplate, supports the adhesion of the ATDC5 mouse chondrogenic cell line in a dose-dependent manner (orange line). Adhesion elicited by Recombinant Human CRELD1 (2 µg/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human CRELD1 Monoclonal Antibody (Catalog # MAB3128). The ND_{50} is typically 0.15–0.75 µg/mL.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CRELD1, also known as cirrin, is an integral membrane protein that functions as a cell adhesion molecule. It is synthesized as a 420 amino acid (aa) precursor with an N-terminal signal peptide, a large extracellular domain with two EGF-like repeats, 2 transmembrane domains separated by a very short cytoplasmic loop, and a short extracellular C-terminal domain. An alternatively spliced isoform with a unique C-terminus that lacks the transmembrane domains has also been cloned. Missense mutations in CRELD1 have been associated with atrioventricular septal defects. The N-terminal extracellular domain of human and mouse CRELD1 share 92% aa sequence identity.

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