Mouse CRELD1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4116

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CRELD1 in direct ELISAs and Western blots. In Western blots, approximately 15% cross-reactivity with recombinant human CRELD1 is observed and less than 5% cross-reactivity with recombinant mouse CRELD2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CRELD1 Gln30-Glu362 Accession # Q91XD7
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 either lyophilized or as a 0.2 μm filtered solution in PBS.

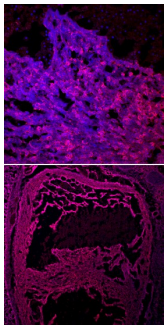
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse CRELD1
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



CRELD1 in Mouse Embryo. CRELD1 was detected in immersion fixed frozen sections of mouse embryo (E13.5) using Goat Anti-Mouse CRELD1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4116) at 10 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to the developing heart and is shown at both low (lower panel) and high magnification (upper panel). View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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 (cysteine-rich with EGF-like domain protein 1) 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 (ECD) with two EGF-like repeats that flank two consecutive furin-like repeats, two-transmembrane domains separated by one cytoplasmic residue, and a short extracellular C-terminal domain. CRELD1 null-mouse fails to develop a normal heart and missense mutations in human CRELD1 have also been associated with atrioventricular septal defects. The N-terminal ECD of mouse CRELD1 shares 97% and 92% aa sequence identity with the ECD of rat and human CRELD1, respectively.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449