# Mouse CRELD1 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4116G
100 µg

## DESCRIPTION

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| **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<br>Gln30-Glu362<br>Accession # Q91XD7 |
| **Conjugate** | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| **Formulation** | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## 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.*

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| **Western Blot** | Optimal dilution of this antibody should be experimentally determined. |
| **Immunohistochemistry** | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

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| **Shipping** | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied |

## 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.

## PRODUCT SPECIFIC NOTICES

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