

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CRELD2 α isoform in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 30% cross-reactivity with recombinant mouse (rm) CRELD2 is observed and less than 1% cross-reactivity with recombinant human CRELD1 and rmCRELD1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CRELD2 α Isoform Ala21-Leu353 Accession # AAH50675
Formulation	Lyophilized from a 0.2 μ m 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 μ m 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 μ g/mL	Recombinant Human CRELD2 alpha Isoform

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. <ul style="list-style-type: none"> ● 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

CRELD2 is an ubiquitously expressed protein that is a second member of the CRELD family of matricellular proteins. Human CRELD2 α isoform is synthesized as a 353 amino acid residue precursor protein with a signal peptide, a highly conserved domain rich in glutamic acid and tryptophan (WE), and EGF-like repeats. Multiple isoforms, including the β isoform with a 27 aa substitution for the C-terminal 96 residues of the α isoform, and another isoform with a 32 residue deletion between residues 258 and 289, have been reported. Human CRELD2 has been shown to interact with the $\alpha 4$ subunit of the nicotinic acetylcholine receptor and function as a specific regulator of receptor expression. Human CRELD2 shares 76% and 77% amino acid sequence homology with mouse and rat CRELD 2, respectively.