

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CRTAC1 Isoform 1 in direct ELISAs and Western blots. In Western blots, approximately 10% cross-reactivity with recombinant human CRTAC1 Isoform 2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CRTAC1 Isoform 1 Ser28-Cys661 Accession # Q9NQ79
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

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

PREPARATION AND STORAGE

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

CRTAC1 (cartilage acidic protein 1; also CEP-68) is a 95-105 kDa member of a novel family of EGF domain-containing proteins. It is secreted by articular chondrocytes and may play a role in either cartilage matrix organization, or cell-matrix adhesion. Mature human CRTAC1 is 634 amino acids (aa) in length. It contains four FG-GAP (PheGly-GlyAlaPro) domains (aa 46-437) and one EGF-like motif (aa 559-605). Multiple splice forms exist. There are two alternate start sites at Met9 and Met211 that may be accompanied by a 39 aa substitution for the C-terminal 55 aa, or an 84 aa substitution for aa 545-661. Over aa 28-661, human CRTAC1 shares 91% aa identity with mouse CRTAC1. This form in mouse, however, is more equivalent to the human isoform that shows a C-terminal 39 aa substitution. In this case, there is 95% aa identity between mouse and human.

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