abcam

Product datasheet

Recombinant Human CAPNS2 protein ab164557

1 Image

Description

Product name	Recombinant Human CAPNS2 protein
Expression system	Wheat germ
Accession	Q96L46
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MFLAKALLEGADRGLGEALGGLFGGGGQRREGGGRNIGG IVGGIVNFISE AAAAQYTPEPPPTQQHFTSVEASESEEVRRFRQQFTQLA GPDMEVGATDL MNILNKVLSKHKDLKTDGFSLDTCRSIVSVMDSDTTGKLG FEEFKYLWNN IKKWQCVYKQYDRDHSGSLGSSQLRGALQAAGFQLNEQL YQMIVRRYANE DGDMDFNNFISCLVRLDAMFRAFKSLDRDRDGLIQVSIKE WLQLTMYS
Amino acids	1 to 248
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab164557** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot
Form	Liquid
Additional notes	This product was previously labelled as Calpain S2.

Preparation and Storage

Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles.

pH: 8.00
Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

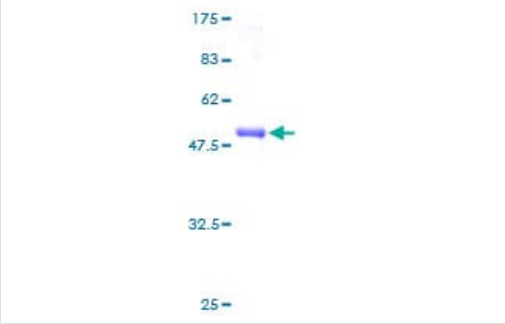
Relevance

Both M-calpain and m-calpain are ubiquitously expressed in mammalian cells, and are countered by the endogenous calpain inhibitor, calpastatin. Other calpain family members (calpain-3, calpain-5, calpain-9, etc) have more limited tissue distribution, and perhaps different functions. The calpain family members consist of a common small subunit (Calpain-S1), and a large variable subunit. It is not clear that all calpains form heterodimers with a small subunit, but calpain-S1 is known to form a heterodimer with calpain-1 and also with calpain-2. CAPNS2 was recently discovered, and initial studies indicate that both small subunits may act as chaperonins to help with folding, or accessory proteins to help localize the calpains. Domains in the small subunit include the amino terminal domain-V (a glycine-rich sequence that is removed on activation of calpain, shorter in calpain-S2 than in calpain S1) and domain-VI, the calcium binding, EF hand domain.

Cellular localization

Cytoplasmic; Translocates to the plasma membrane upon calcium binding

Images



SDS-PAGE - Recombinant Human CAPNS2 protein (ab164557)

ab164557 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
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