

Product datasheet

Recombinant Human Calpain 3 protein ab114576

1 Image

Description

Product name	Recombinant Human Calpain 3 protein
Expression system	Wheat germ
Accession	<u>P20807-4</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MHGNKQHLQK DFFLYNASKA RSKTYNMRE VSQRFRLPPS EYVMPSTYE PHQEGEFILR VFSEKRNLS EVENTISVDR PVKKKTKPI IFVSDRANSN KELGVDQESE EGKGKTS PDK QKQSPQPQPG SSDQSEEEQQ QFRNIFKQIA GDDMEICADE LKKVLNTVVN KHKDLKTHGF TLESCRSMA LMDTDGSGKL NLQEFHHLWN KIKAWQKIFK HYDTDQSGTI NSYEMRNAVN DAGFHLNQL YDIITMRYAD KHMNIDFDSF ICCFVRLEGM FRAFHAFDKD GDGIKLNVL EWLQLTMYA
Predicted molecular weight	60 kDa including tags
Amino acids	1 to 309
Tags	GST tag N-Terminus
Additional sequence information	ab114576 is the full length sequence of isoform IV which corresponds to amino acids 513-821 of the canonical sequence.

Specifications

Our **Abpromise guarantee** covers the use of **ab114576** in the following tested applications.

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

Applications	SDS-PAGE ELISA Western blot
Form	Liquid

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
pH: 8.00
Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

Function Calcium-regulated non-lysosomal thiol-protease.

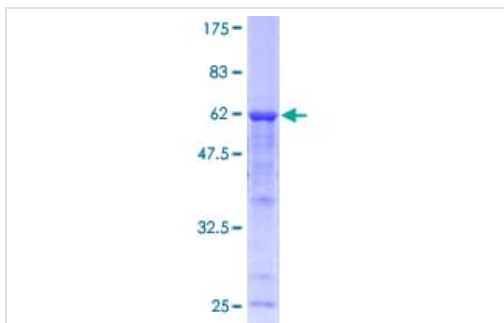
Tissue specificity Isoform I is skeletal muscle specific.

Involvement in disease Defects in CAPN3 are the cause of limb-girdle muscular dystrophy type 2A (LGMD2A) [MIM:253600]. LGMD2A is an autosomal recessive degenerative myopathy characterized by progressive symmetrical atrophy and weakness of the proximal limb muscles and elevated serum creatine kinase. The symptoms usually begin during the first two decades of life, and the disease gradually worsens, often resulting in loss of walking ability 10 or 20 years after onset.

Sequence similarities Belongs to the peptidase C2 family.
Contains 1 calpain catalytic domain.
Contains 4 EF-hand domains.

Cellular localization Cytoplasm.

Images



ab114576 on a 12.5% SDS-PAGE Stained with Coomassie Blue.

SDS-PAGE - Recombinant Human Calpain 3 protein
(ab114576)

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