

Anti-CAPN3(Calpain-3) Polyclonal Antibody

Cat. #: 60B374

Description:

CAPN3(Calpain-3) is a calcium-regulated non-lysosomal thiol-protease. It has a broad endopeptidase specificity. CAPN3 is activated by micromolar concentrations of calcium and inhibited by calpastatin. It interacts with TTN/titin. Isoform I is skeletal muscle specific. Defects in CAPN3 are the cause of limb-girdle muscular dystrophy type 2A (LGMD2A). LGMD2A is both autosomal dominantly and recessively transmitted. It is characterized by progressive symmetrical atrophy and weakness of the proximal limb muscles and elevated serum creatine kinase. CAPN3 belongs to the peptidase C2 family and contains 1 calpain catalytic domain and 4 EF-hand domains.

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human CAPN3(Calpain-3)

References

Richard,I., et al, Cell 81 (1), 27-40 (1995)
Sorimachi,H., et al, J. Biol. Chem. 264 (33), 20106-20111 (1989)
Miller,M.K., et al, J. Mol. Biol. 333 (5), 951-964 (2003)
Richard,I., et al, Am. J. Hum. Genet. 64 (6), 1524-1540 (1999)
Fardeau,M., et al, Brain 119 (PT 1), 295-308 (1996)
Richard,I., et al, Am. J. Hum. Genet. 60 (5), 1128-1138 (1997)
Dincer,P., et al, Ann. Neurol. 42 (2), 222-229 (1997)
Urtasun,M., et al, Brain 121 (PT 9), 1735-1747 (1998)
Haeffner,K., et al, Hum. Mutat. Suppl. 1, S298-S300 (1998)

Clone Number:

Isotype:

Species: Human

Storage and Stability: at -20oC

Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)