Anti-CAPN10 Antibody

Description	Calpains represent a ubiquitous, well-conserved family of calcium-dependent cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large catalytic subunit has four domains: domain I, the N-terminal regulatory domain that is processed upon calpain activation; domain II, the protease domain; domain III, a linker domain of unknown function; and domain IV, the calmodulin-like calcium-binding domain. This gene encodes a large subunit. It is an atypical calpain in that it lacks the calmodulin-like calcium-binding domain and instead has a divergent C-terminal domain. It is similar in organization to calpains 5 and 6. This gene is associated with type 2 or non-insulin-dependent diabetes mellitus (NIDDM), and is located within the NIDDM1 region. Multiple alternative transcript variants have been described for this gene.

Model	STJ116043
Host	Rabbit
Reactivity	Mouse
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-230 of human CAPN10 (NP_075571.1).
Gene ID	11132
Gene Symbol	CAPN10
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Detected in primary skeletal muscle cells (at protein level), Ubiquitous

Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Calpain-10
Molecular Weight	74.952 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:1477OMIM:601283Reactome:R-HSA-1474228
Alternative Names	Calpain-10
Function	Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction, May play a role in insulin-stimulated glucose uptake,