

Basic Information

Product Name	Anti-Calpain 2/CAPN2 Antibody (Clone#OTI3G1)
Gene Name	CAPN2
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Species Reactivity	human, mouse, rat, dog
Tested Application	IHC, WB
Contents	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Immunogen	Full length human recombinant protein of human CAPN2(NP_001739) produced in HEK293T cell.
Concentration	500 ug/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Observed MW	80 kDa
Dilution Ratios	Western blot (WB): 1:2000 Immunohistochemistry (IHC):1:150

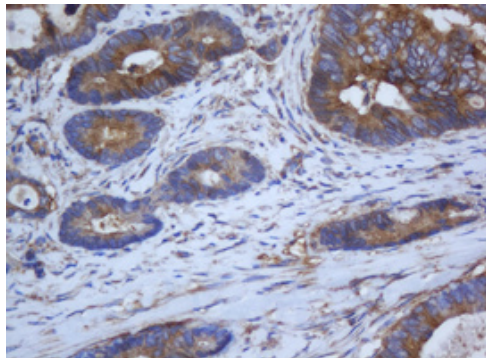
Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

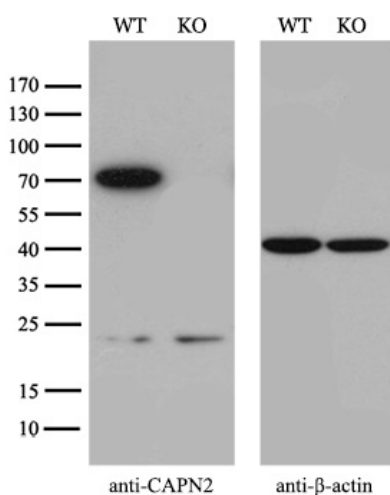
Background Information

The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Selected Validation Data



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-CAPN2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, M03492-3)



Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT) and CAPN2-Knockout 293T cells (KO) were separated by SDS-PAGE and immunoblotted with anti-CAPN2 monoclonal antibody M03492-3, (1:500). Then the blotted membrane was stripped and reprobed with anti-β-actin antibody ([M01263-6]) as a loading control.