

Anti-CAPNS1 Monoclonal Antibody (D-6B6)

Catalog #: ASZ1C268

Product Details

Product Description:	The Anti-CAPNS1 antibody is a mouse monoclonal antibody recommended for immunohistochemistry, immunocytochemistry, western blot, immunoprecipitation and other applications. This antibody specifically targets human CAPNS1.
Host Species:	Mouse
Target:	CAPNS1
Target Species:	Human
Specificity:	This antibody reacts with human Calpain Small Subunit 1 (CAPNS1).
Species Reactivity:	Human
Clonality:	Monoclonal
Clone ID:	D-6B6
Purification:	The antibody was purified by affinity chromatography.
Purity:	>95% as determined by SDS-PAGE

Formulation Information

Concentration:	1 mg/mL
Sterility:	0.2 µM filtered
Preservative:	0.02% sodium azide

Applications

Applications:	Immunohistochemistry, Immunocytochemistry, Western Blot, Immunoprecipitation
Recommended Dilution:	Western Blot: 1:500-1:5000 Immunohistochemistry: 1:50-1:200 Immunocytochemistry: 1:50-1:200
Note:	Optimal dilutions/concentrations should be determined by the end user.

Storage & Handling

Shipping:	Shipped at 4°C.
Storage:	This antibody can be stored at 2°C-8°C for one month. For longer storage, store at -20°C. Avoid repeated freeze-thaw cycles.

Target Details

Protein Name:	Calpain small subunit 1
Introduction:	This gene is a member of the calpain small subunit family. Calpains are calcium-dependent cysteine proteinases that are widely distributed in mammalian cells. Calpains operate as heterodimers, comprising a specific large catalytic subunit (calpain 1 subunit in Calpain I, and calpain 2 subunit in Calpain II), and a common small regulatory subunit encoded by this gene. This encoded protein is essential for the stability and function of both calpain heterodimers, whose proteolytic activities influence various cellular functions including apoptosis, proliferation, migration, adhesion, and autophagy. Calpains have been implicated in neurodegenerative processes, such as myotonic dystrophy. A pseudogene of this gene has been defined on chromosome 1. Alternative splicing results in multiple transcript variants.
Alternative Names:	CALPAIN4; CANP; CANPS; CAPN4; CDPS; CSS1
Gene ID:	826
UniProt:	P04632
Related Disease:	Pulmonary hypertension, primary, 6 (PPH6)
Subcellular Location:	Cytoplasm
Cell Line Specificity:	Low cancer specificity
Function:	Regulatory subunit of the calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Essential for embryonic development (By similarity).