

Datasheet for ABIN6137984

anti-Calpastatin antibody (AA 550-650)**1** Image**1** Publication[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Calpastatin (CAST)
Binding Specificity:	AA 550-650
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calpastatin antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 550-650 of human CAST (NP_001177371.1).
Sequence:	SDKDLDDALD KLSDSLGQRQ PDPDENKPME DKVKEKAKAE HRDKLGERDD TIPPEYRHLL DDNGQDKPVK PPTKKSEDSK KPADDQDPID ALSGDLDSKP S
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Calpastatin (CAST)
Alternative Name:	CAST (CAST Products)
Background:	<p>The protein encoded by this gene is an endogenous calpain (calcium-dependent cysteine protease) inhibitor. It consists of an N-terminal domain L and four repetitive calpain-inhibition domains (domains 1-4), and it is involved in the proteolysis of amyloid precursor protein. The calpain/calpastatin system is involved in numerous membrane fusion events, such as neural vesicle exocytosis and platelet and red-cell aggregation. The encoded protein is also thought to affect the expression levels of genes encoding structural or regulatory proteins. Alternatively spliced transcript variants encoding different isoforms have been described.,CAST,BS-17,PLACK,Epigenetics & Nuclear Signaling,RNA Binding,Cell Biology & Developmental Biology,Ubiquitin,Neuroscience,Cell Type Marker,Neurodegenerative Diseases,Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer's Disease,Neuron marker,Synapse marker,CAST</p>
Molecular Weight:	63 kDa/71- 84 kDa
Gene ID:	831
UniProt:	P20810

Application Details

Application Notes:	WB,1:500 - 1:2000
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

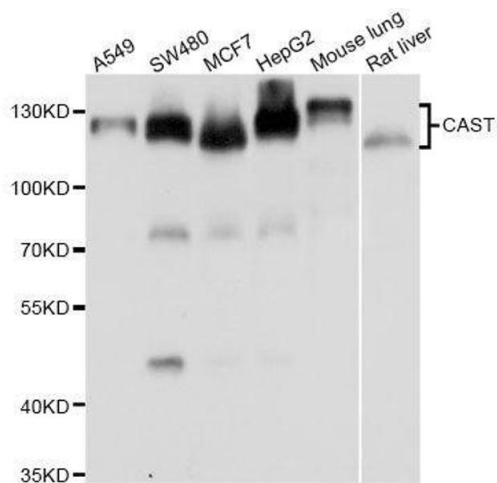
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in: Wan, Sun, Wu, Yu, Wang, Lin, Li, Wu, Sun: "Chi3l3: a potential key orchestrator of eosinophil recruitment in meningitis induced by *Angiostrongylus cantonensis*." in: **Journal of neuroinflammation**, Vol. 15, Issue 1, pp. 31, (2018) ([PubMed](#)).

Jiang, He, Zhu, Liang, Wang, Lu, Ren, Yi, Xiao, Wang: "Endoplasmic reticulum stress-dependent ROS production mediates synovial myofibroblastic differentiation in the immobilization-induced rat knee joint contracture model." in: **Experimental cell research**, Vol. 369, Issue 2, pp. 325-334, (2018) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using CAST antibody.