Datasheet for ABIN5663576
anti-Calpastatin antibody (C-Term)

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Overview

Quantity:	100 μL
Target:	Calpastatin (CAST)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calpastatin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

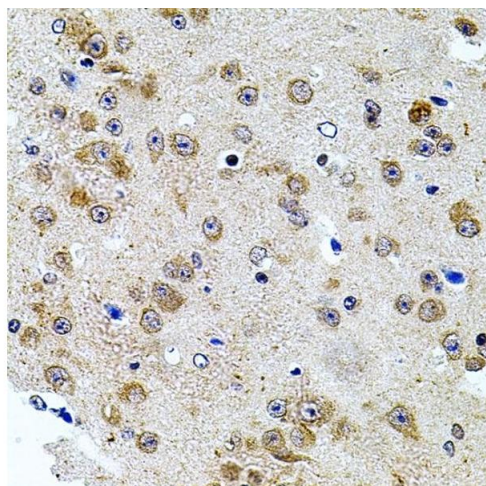|	
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 600 to the C-terminus of human CAST (NP_001177371.1).
Sequence:	TIPPEYRHLL DDNGQDKPVK PPTKKSEDSK KPADDQDPID ALSGDLDSCP STTETSQNTA KDKCKKAASS SKAPKNGGKA KDSAKTTEET SKPKDD
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Calpastatin (CAST)
Alternative Name:	CAST (CAST Products)
Background:	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
Molecular Weight:	63 kDa/71- 84 kDa
Gene ID:	831
UniProt:	P20810

Application Details

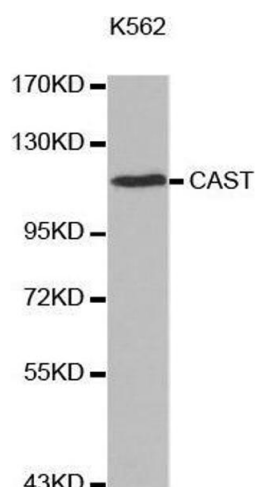|	
Application Notes:	WB,1:200 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

Handling

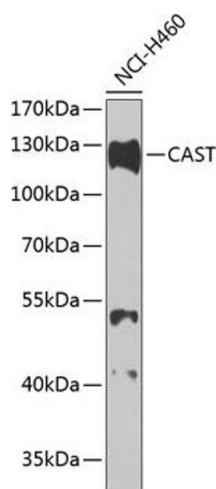|	
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images

Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded mouse brain using CAST antibody (ABIN3015047, ABIN3015048, ABIN5663576 and ABIN6213614) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

Western Blotting

Image 2. Western blot analysis of extracts of K562 cell line, using CAST antibody.

Western Blotting

Image 3. Western blot analysis of extracts of H460 cells, using CAST antibody (ABIN3015047, ABIN3015048, ABIN5663576 and ABIN6213614) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 μg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.

Please check the product details page for more images. Overall 5 images are available for ABIN5663576.