

Datasheet for ABIN388399

anti-Calmodulin 1 antibody (C-Term)

3 Images

1 Publication

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Overview

Quantity:	400 µL
Target:	Calmodulin 1 (Calm1)
Binding Specificity:	AA 117-149, C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calmodulin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This Calmodulin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 117-149 amino acids from the C-terminal region of human Calmodulin.
Clone:	RB00561
Isotype:	Ig Fraction
Predicted Reactivity:	X, B, C, Zf, Rb, Sh
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	Calmodulin 1 (Calm1)
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Target Details

Alternative Name:	Calmodulin (Calm1 Products)
Background:	Calmodulin is the archetype of the family of calcium-modulated proteins of which nearly 20 members have been found. They are identified by their occurrence in the cytosol or on membranes facing the cytosol and by a high affinity for calcium. Calmodulin contains 149 amino acids and has 4 calcium-binding domains. Its functions include roles in growth and the cell cycle as well as in signal transduction and the synthesis and release of neurotransmitters.
Gene ID:	808
NCBI Accession:	NP_001734 , NP_005175 , NP_008819
UniProt:	P62158
Pathways:	cAMP Metabolic Process , Myometrial Relaxation and Contraction , G-protein mediated Events , Interaction of EGFR with phospholipase C-gamma , Phototransduction , BCR Signaling

Application Details

Application Notes:	WB: 1:2000. WB: 1:2000. IHC-P: 1:250
Restrictions:	For Research Use only

Handling

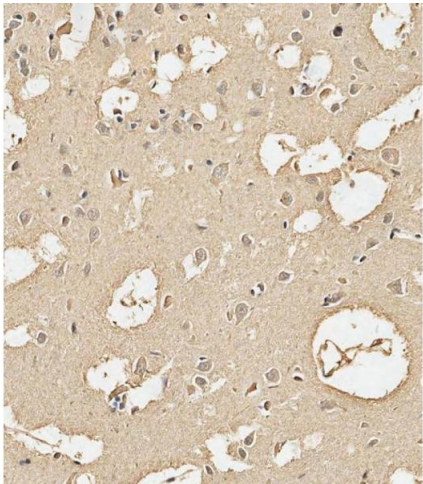
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:	Hedlund, Karlsson, Osborn, Ludwig, Isacson: "Global gene expression profiling of somatic motor neuron populations with different vulnerability identify molecules and pathways of degeneration
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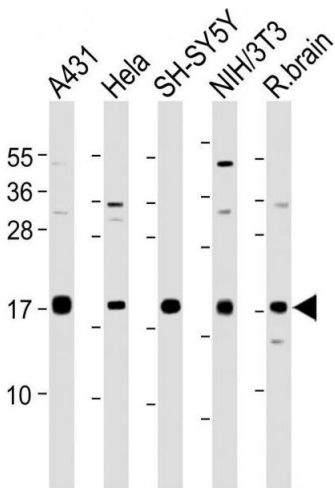
and protection." in: **Brain : a journal of neurology**, Vol. 133, Issue Pt 8, pp. 2313-30, (2010) ([PubMed](#)).

Images



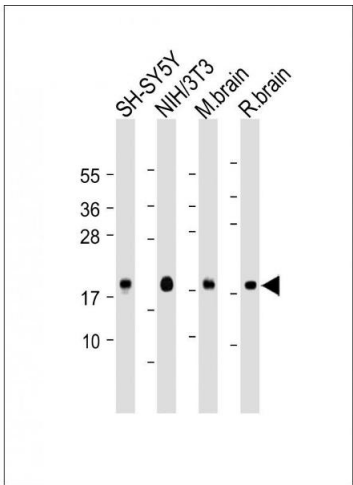
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. (ABIN388399 and ABIN2850507) staining hCalmodulin- in human brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Samples were incubated with primary antibody (1/250) for 1 hours at room temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Western Blotting

Image 2. All lanes : Anti-hCalmodulin- at 1:2000 dilution
Lane 1: A431 whole cell lysate
Lane 2: Hela whole cell lysate
Lane 3: SH-SY5Y whole cell lysate
Lane 4: NIH/3T3 whole cell lysate
Lane 5: Rat brain lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa
Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 3. All lanes : Anti-Calmodulin Antibody at 1:2000 dilution
Lane 1: SH-SY5Y whole cell lysate
Lane 2: NIH/3T3 whole cell lysate
Lane 3: Mouse brain lysate
Lane 4: Rat brain lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa
Blocking/Dilution buffer: 5 % NFDM/TBST.