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Datasheet for ABIN5004647

anti-Hippocalcin antibody (AA 101-193) (Alexa Fluor 680)

Overview

Quantity:	100 µL
Target:	Hippocalcin (HPCA)
Binding Specificity:	AA 101-193
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Hippocalcin antibody is conjugated to Alexa Fluor 680
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Hippocalcin
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Cow,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	Hippocalcin (HPCA)
Alternative Name:	Hippocalcin (HPCA Products)

Target Details

Background:	<p>Synonyms: BDR 2, BDR2, Calcium binding protein BDR 2, Calcium binding protein BDR2, Calcium-binding protein BDR-2, Hpca, HPCA_HUMAN, Neuron specic calcium binding protein hippocalcin, Neuron specific calcium-binding protein hippocalcin, Neuron-specific calcium-binding protein hippocalcin,P23K.</p> <p>Background: Hippocalcin is a neuron-specific calcium-binding protein found primarily in the plasma membrane of brain and retinal tissue, with increased expression observed in hippocampal pyramidal cells. Through its calcium-dependent signal regulation, hippocalcin can both inhibit rhodopsin kinase and increase phospholipase D2 expression. In order to regulate kinase and phospholipase activity, hippocalcin must bind to the plasma membrane where it can then bind two calcium ions for use in signal regulation. The hippocalcin protein is highly conserved in mouse, rat and human tissue and has a suggested role in neural plasticity and associative memory by contributing to the survival of neurons during aging. The loss of hippocalcin expression is thought to contribute to age-related impairment of post-synaptic functions related to neuronal degradation.</p>
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Application Details

Application Notes:	<p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months