



## Rabbit Anti-Hippocalcin antibody

SL11348R

<b>Product Name:</b>	Hippocalcin
<b>Chinese Name:</b>	神经细胞特异性钙Binding protein抗体
<b>Alias:</b>	BDR 2; BDR2; Calcium binding protein BDR 2; Calcium binding protein BDR2; Calcium-binding protein BDR-2; HpcA; HPCA_HUMAN; Neuron specific calcium binding protein hippocalcin; Neuron specific calcium-binding protein hippocalcin; Neuron-specific calcium-binding protein hippocalcin; P23K.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Cow,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	22kDa
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Hippocalcin:101-193/193
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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.

**Function:**

May be involved in the calcium-dependent regulation of rhodopsin phosphorylation.  
Binds two calcium ions.

**Tissue Specificity:**

Brain specific.

**Post-translational modifications:**

Myristoylation facilitates interaction with membranes.

**Similarity:**

Belongs to the recoverin family.  
Contains 4 EF-hand domains.

**SWISS:**

P84074

**Gene ID:**

3208

**Database links:**

[Entrez Gene: 3208](#)Human

[Entrez Gene: 509772](#)Cow

[Entrez Gene: 15444](#)Mouse

[Entrez Gene: 29177](#)Rat

[Omim: 142622](#)Human

[SwissProt: Q4PL64](#)Cow

[SwissProt: P84074](#)Human

[SwissProt: P84075](#)Mouse

[SwissProt: P84076](#)Rat

[Unigene: 632391](#)Human

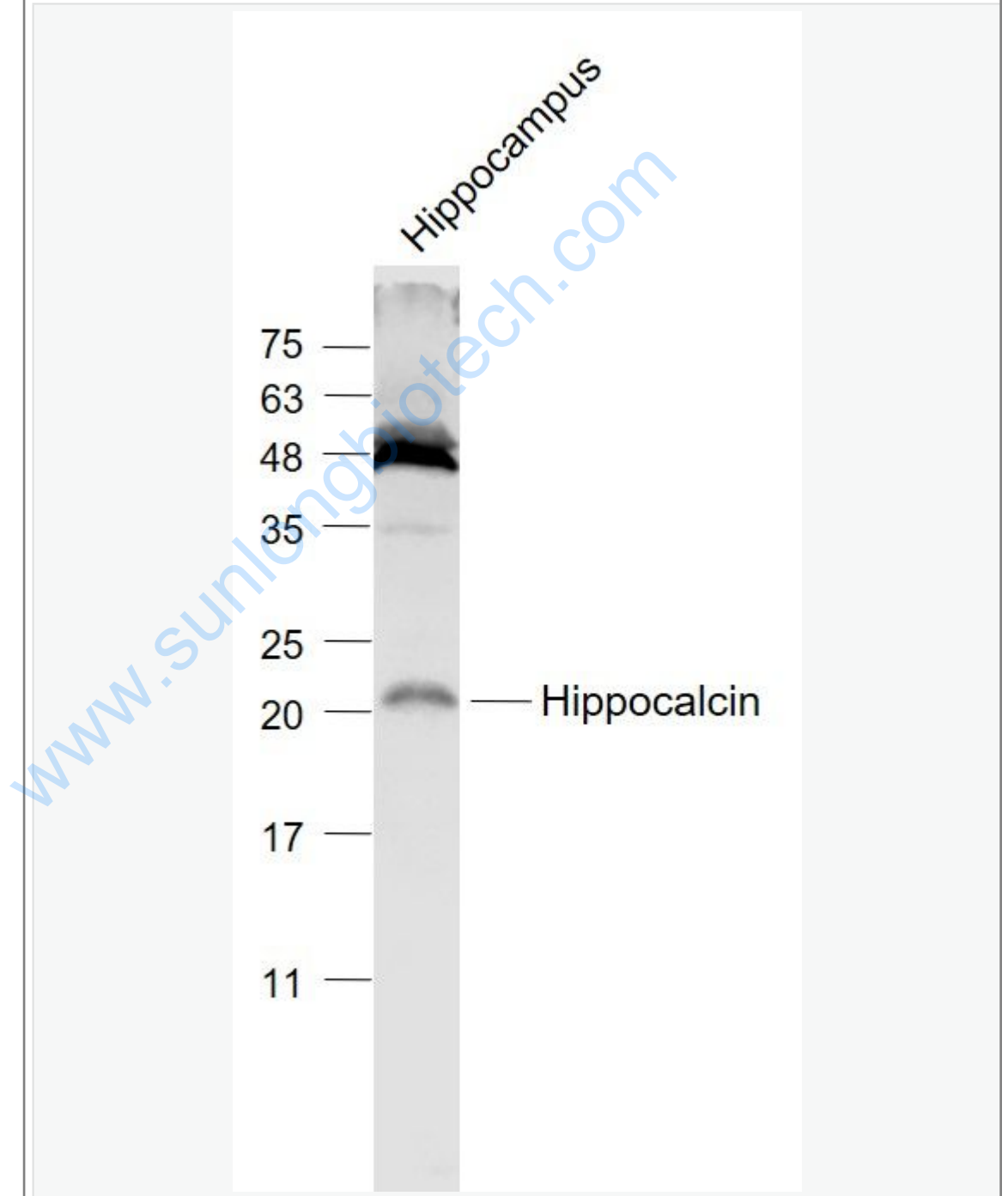
[Unigene: 384452](#)Mouse

[Unigene: 11019Rat](#)

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



Sample:

Hippocampus (Mouse) Lysate at 40 ug

Primary: Anti- Hippocalcin (SL11348R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 22 kD

Observed band size: 22 kD

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Cerebral cortex

75 —  
63 —  
48 —  
35 —  
25 —  
20 —  
17 —  
11 —

— Hippocalcin

Sample:

Cerebral cortex (Mouse) Lysate at 40 ug

Primary: Anti- Hippocalcin (SL11348R) at 1/1000 dilution

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Predicted band size: 22 kD

Observed band size: 22 kD

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