



Rabbit Anti-ERC2 antibody

SL11345R

Product Name:	ERC2
Chinese Name:	CAST1蛋白抗体
Alias:	Cast; CAST1; CAZ-associated structural protein 1; Cmbp (gene name); Cytomatrix protein p110; ERC protein 2; KIAA0378; ERC2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	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.
Molecular weight:	110kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CAST1:361-460/957
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	ERCs (ERC1 and ERC2) also referred to as ELKS and CAST are related proteins which share an identical C-terminal sequence. They interact with the conserved RIM PDZ domain via an unusual PDZ binding motif. ERC2/CAST 1 is only expressed as a single RIM binding variant. All ERCs have been shown to interact with Rab6, a protein involved in membrane trafficking at the Golgi complex. The function of these proteins has not been determined yet. They may link Rab6 mediated non-neuronal membrane

traffic at the Golgi complex to neuronal membrane traffic at the active zone executed via RIMs.

Function:

Thought to be involved in the organization of the cytomatrix at the nerve terminals active zone (CAZ) which regulates neurotransmitter release. Seems to act together with BSN. May recruit liprin-alpha proteins to the CAZ.

Subunit:

Interacts with BSN, ERC1, PPFIA1, PPFIA2, PPFIA3 and PPFIA4. Interacts through its C-terminus with the PDZ domain of RIMS1. Part of a complex consisting of ERC2, RIMS1 and UNC13A.

Subcellular Location:

Cytoplasm. Cell junction; synapse. Cell junction; synapse: synaptosome. Cytoskeleton. Note: In neurons, localized to synapses, and colocalizes with PCLO. Localized to the active zone of presynaptic density.

SWISS:

O15083

Gene ID:

26059

Database links:

[Entrez Gene: 26059](#) Human

[Entrez Gene: 238988](#) Mouse

[Entrez Gene: 259269](#) Rat

[SwissProt: O15083](#) Human

[SwissProt: Q6PH08](#) Mouse

[SwissProt: Q8K3M6](#) Rat

[Unigene: 476389](#) Human

[Unigene: 318004](#) Mouse

[Unigene: 213719](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human,

	therapeutic or diagnostic applications.
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