

ERC2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54462**Specification**

ERC2 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	O15083
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	110 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CAST1
Epitope Specificity	361-460/957
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

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.

ERC2 Polyclonal Antibody - Additional Information**Gene ID 26059**

Other Names

ERC protein 2, ERC2, KIAA0378

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

ERC2 Polyclonal Antibody - Protein Information

Name ERC2

Synonyms KIAA0378

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.

Cellular Location

Cytoplasm. Synapse. Presynaptic active zone. Cytoplasm, cytoskeleton. Note=In neurons, localized to synapses, and colocalizes with PCLO. Localized to the active zone of presynaptic density (By similarity).

ERC2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ERC2 Polyclonal Antibody - Images