ERC2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9944b

Specification

ERC2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession   [O15083](O15083)

ERC2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 26059

Other Names
ERC protein 2, ERC2, KIAA0378

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ERC2 Antibody (C-term) Blocking Peptide - 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 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ERC2 Antibody (C-term) Blocking Peptide - Images

ERC2 Antibody (C-term) Blocking Peptide - Background

 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 Antibody (C-term) Blocking Peptide - References

 Uhl, G.R., et al. Arch. Gen. Psychiatry 65(6):683-693(2008)Kiel, D.P., et al. BMC Med. Genet. 8 SUPPL 1, S14 (2007) tom Dieck, S., et al. J. Cell Biol. 168(5):825-836(2005)