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ENSA Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP10456c

Specification

ENSA Antibody (Center) Blocking Peptide - Product Information

Primary Accession	O43768
Other Accession	NP_996927.1, NP_996929.1, NP_996925.1, NP_004427.1, NP_996930.1, NP_997051.1, NP_996926.1, N

ENSA Antibody (Center) Blocking Peptide - Additional Information

Gene ID 2029

Other Names
Alpha-endosulfine, ARPP-19e, ENSA

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.

ENSA Antibody (Center) Blocking Peptide - Protein Information

Name ENSA

Function
Protein phosphatase inhibitor that specifically inhibits protein phosphatase 2A (PP2A) during mitosis. When phosphorylated at Ser-67 during mitosis, specifically interacts with PPP2R2D (PR55-delta) and inhibits its activity, leading to inactivation of PP2A, an essential condition to keep cyclin-B1-CDK1 activity high during M phase (By similarity). Also acts as a stimulator of insulin secretion by interacting with sulfonylurea receptor (ABCC8), thereby preventing sulfonylurea from binding to its receptor and reducing K(ATP) channel currents.

Cellular Location
Cytoplasm.

Tissue Location
Widely expressed with high levels in skeletal muscle and brain and lower levels in the pancreas

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ENSA Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

ENSA Antibody (Center) Blocking Peptide - Images

ENSA Antibody (Center) Blocking Peptide - Background

ENSA belongs to a highlyconserved cAMP-regulated phosphoprotein (ARPP) family. This proteinwas identified as an endogenous ligand for the sulfonylureareceptor, ABCC8/SUR1. ABCC8 is the regulatory subunit of theATP-sensitive potassium (KATP) channel, which is located on theplasma membrane of pancreatic beta cells and plays a key role inthe control of insulin release from pancreatic beta cells. Thisprotein is thought to be an endogenous regulator of KATP channels.In vitro studies have demonstrated that this protein modulatesinsulin secretion through the interaction with KATP channel, andthis gene has been proposed as a candidate gene for type 2diabetes.

ENSA Antibody (Center) Blocking Peptide - References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Olsen, J.V., et al. Cell 127(3):635-648(2006)Olsen, J.V., et al. Cell 127(3):635-648(2006)Gabrielsson, B.G., et al. Mol. Cell. Biochem. 258 (1-2), 65-71 (2004) :Thameem, F., et al. Mol. Genet. Metab. 81(1):16-21(2004)