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PAWR Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9439c

Specification

PAWR Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q96IZ0

PAWR Antibody (Center) Blocking Peptide - Additional Information

Gene ID 5074

Other Names
PRKC apoptosis WT1 regulator protein, Prostate apoptosis response 4 protein, Par-4, PAWR, PAR4

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.

PAWR Antibody (Center) Blocking Peptide - Protein Information

Name PAWR

Synonyms PAR4

Function
Pro-apoptotic protein capable of selectively inducing apoptosis in cancer cells, sensitizing the cells to diverse apoptotic stimuli and causing regression of tumors in animal models. Induces apoptosis in certain cancer cells by activation of the Fas prodeath pathway and coparallel inhibition of NF-kappa-B transcriptional activity. Inhibits the transcriptional activation and augments the transcriptional repression mediated by WT1. Down-regulates the anti- apoptotic protein BCL2 via its interaction with WT1. Seems also to be a transcriptional repressor by itself. May be directly involved in regulating the amyloid precursor protein (APP) cleavage activity of BACE1.

Cellular Location
Cytoplasm. Nucleus. Note=Mainly cytoplasmic in absence of apoptosis signal and in normal cells. Nuclear in most cancer cell lines. Nuclear entry seems to be essential but not sufficient for apoptosis (By similarity). Nuclear localization includes nucleoplasm and PML nuclear bodies.

Tissue Location
Widely expressed. Expression is elevated in various neurodegenerative diseases such as amyotrophic lateral sclerosis, Alzheimer, Parkinson and Huntington diseases and stroke.

Down-regulated in several cancers.

PAWR Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

PAWR Antibody (Center) Blocking Peptide - Images

PAWR Antibody (Center) Blocking Peptide - Background

The tumor suppressor PAWR represses and activates transcription. The protein encoded by this gene is a PAWR protein that itself functions as a transcriptional repressor. It contains a putative leucine zipper domain which interacts with the zinc finger DNA binding domain of PAWR. This protein is specifically upregulated during apoptosis of prostate cells.

PAWR Antibody (Center) Blocking Peptide - References

Acharya, M., et al. J. Biol. Chem. 284(50):34829-34838(2009)# Zapata-Benavides, P., et al. Arch. Med. Res. 40(7):595-599(2009)# Fernandez-Marcos, P.J., et al. Proc. Natl. Acad. Sci. U.S.A. 106(31):12962-12967(2009)# Burikhanov, R., et al. Cell 138(2):377-388(2009)# Lee, J.W., et al. Cancer Lett. 279(2):193-201(2009)# Guo, Q., et al. J. Biol. Chem. 276(19):16040-16044(2001)