

PAR4 Monoclonal Antibody

Catalog No :	YM0504
Reactivity :	Human
Applications :	WB;IHC;IF;ELISA
Target :	PAR4
Gene Name :	PAWR
Protein Name :	PRKC apoptosis WT1 regulator protein
Human Gene Id :	5074
Human Swiss Prot No :	Q96IZ0
Mouse Swiss Prot No :	Q925B0
Immunogen :	Purified recombinant fragment of PAR4 (aa1-330) expressed in E. Coli.
Specificity :	PAR4 Monoclonal Antibody detects endogenous levels of PAR4 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	37kD
P References :	1. J Biol Chem. 2004 Jul 2;279(27):28266-75. 2. Exp Hematol. 2004 Jul;32(7):649-56. 3. Mol Cell Biol. 2005 Feb;25(3):1146-61. 4. Psychiatr Genet. 2006 Oct;16(5):193-6.

Background :

The tumor suppressor WT1 represses and activates transcription. The protein encoded by this gene is a WT1-interacting 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 WT1. This protein is specifically upregulated during apoptosis of prostate cells. [provided by RefSeq, Jul 2008],

Function :

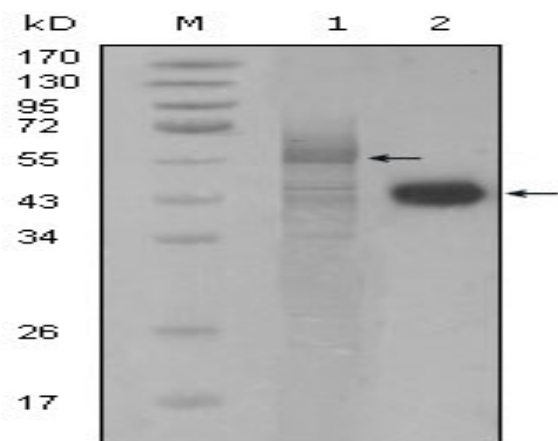
domain:The leucine-zipper domain is not essential for apoptosis, but is required for sensitization of cells to exogenous apoptotic insults and for interaction with its partners.,domain:The SAC domain is a death-inducing domain selective for apoptosis induction in cancer cells. This domain is essential for nuclear entry, Fas activation, inhibition of NF-kappa-B activity and induction of apoptosis in cancer cells.,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

Subcellular Location :

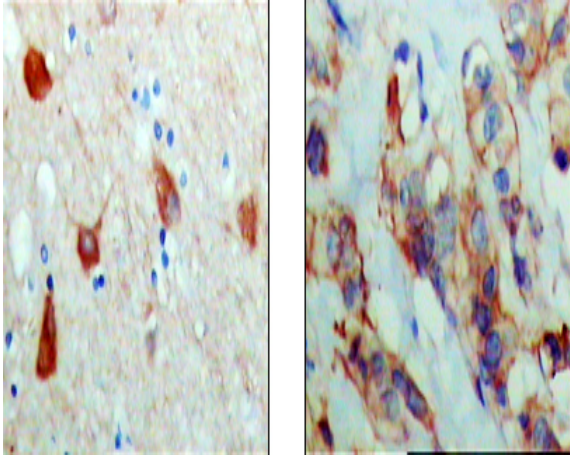
Cytoplasm. Nucleus. Mainly cytoplasmic in absence of apoptosis signal and in normal cells. Nuclear in most cancer cell lines. Nuclear entry seems to be essential but not sufficient for apoptosis (By similarity). Nuclear localization includes nucleoplasm and PML nuclear bodies. .

Expression :

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.

Products Images

Western Blot analysis using PAR4 Monoclonal Antibody against full-length Trx-PAR4 recombinant protein (1) and HeLa cell lysate (2).



Immunohistochemistry analysis of paraffin-embedded human brain (left) and breast carcinoma (right), showing cytoplasmic and membrane localization with DAB staining using PAR4 Monoclonal Antibody.