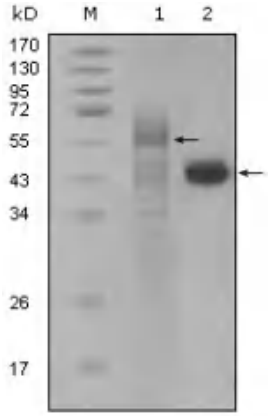
PAR4 Monoclonal Antibody

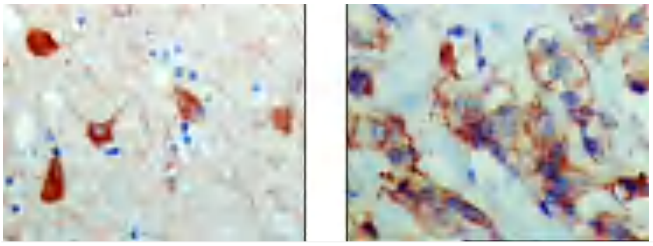
Catalog No	YP-Ab-00080
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;ELISA
Gene Name	PAWR
Protein Name	PRKC apoptosis WT1 regulator protein
Immunogen	Purified recombinant fragment of PAR4 (aa1-330) expressed in E. Coli.
Specificity	PAR4 Monoclonal Antibody detects endogenous levels of PAR4 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PAWR; PAR4; PRKC apoptosis WT1 regulator protein; Prostate apoptosis response 4 protein; Par-4
Observed Band	
Cell Pathway	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. .
Tissue Specificity	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.
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-apoptopic 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

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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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.