

PAR4 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10326**Specification**

PAR4 Antibody - Product Information

Application	WB
Primary Accession	O96IZ0
Other Accession	EAW97348
Reactivity	Human, Mouse, Rat, Horse, Dog
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36568

PAR4 Antibody - Additional Information**Gene ID** 5074

Application & Usage	Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. The antibody recognizes PAR4 in samples from of human, mouse, and rat origins. Reactivity to other species has not been tested.
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Other Names

Par4, PAR -4 induced by effectors of apoptosis , PAWR , PRKC Apoptosis WT1 Regulator Prostate Apoptosis Response Protein 4 TRANSCRIPTIONAL R

Target/Specificity

PAR4

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

PAR4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PAR4 Antibody - 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.

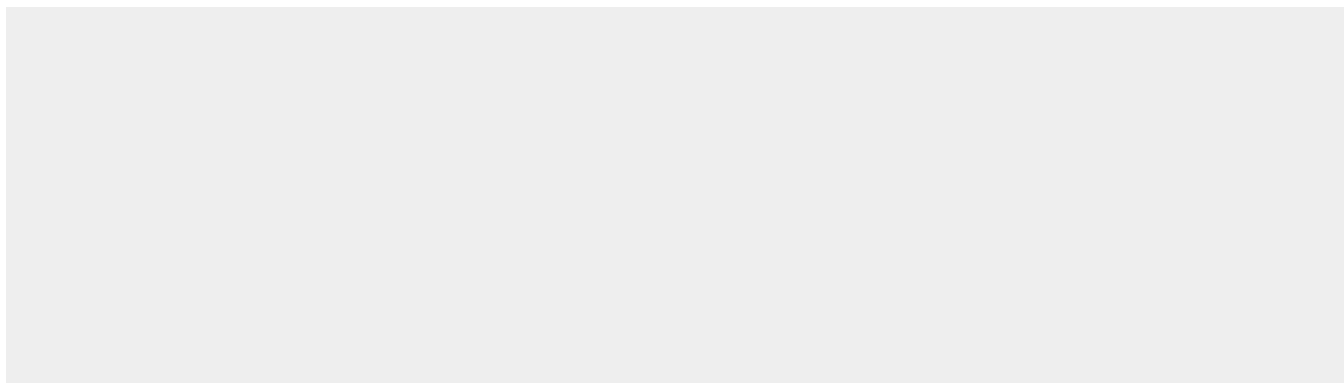
Tissue Location

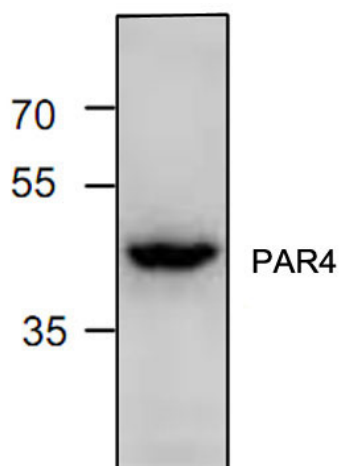
Widely expressed. Expression is elevated in various neurodegenerative diseases such as amyotrophic lateral sclerosis, Alzheimer, Parkinson and Huntington diseases and stroke. Down-regulated in several cancers.

PAR4 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PAR4 Antibody - Images



Western blot analysis of Par4 expression in Jurkat cell lysate.

PAR4 Antibody - Background

Five ionomycin-inducible complementary cDNAs, designated PAR1, 2, 3, 4 and 5, have been isolated from the prostate cancer cell line AT-3. Nucleotide sequencing identified PAR1 as the rat homolog of monkeyP-1, PAR2 as the injury-inducible gene HB-EGF, and PAR3 as the serum-induced gene cyr-61. PAR4 and PAR5 sequences were not found to correspond to any previously described proteins. PAR4 (prostate apoptosis response-4) is specifically expressed by cells entering apoptosis and is not inducible by growth factor stimulation, oxidative stress and necrosis, or growth arrest. The PAR4 gene encodes a 38 kDa protein with a putative nuclear localization signal and carboxy terminal leucine zipper.