

PJA Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP2102c**Specification**

PJA Antibody (Center) Blocking Peptide - Product Information

Primary Accession [Q8NG27](#)

PJA Antibody (Center) Blocking Peptide - Additional Information

Gene ID 64219

Other Names

E3 ubiquitin-protein ligase Praja-1, Praja1, 632-, RING finger protein 70, PJA1, RNF70

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2102c](/product/products/AP2102c) was selected from the Center region of human PJA . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PJA Antibody (Center) Blocking Peptide - Protein Information

Name PJA1

Synonyms RNF70

Function

Has E2-dependent E3 ubiquitin-protein ligase activity. Ubiquitinates MAGED1 antigen leading to its subsequent degradation by proteasome (By similarity). May be involved in protein sorting.

Tissue Location

Expressed in various regions of the brain including the cerebellum, cerebral cortex, medulla, occipital pole, frontal lobe, temporal lobe and putamen. Highest levels in the cerebral cortex

PJA Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PJA Antibody (Center) Blocking Peptide - Images

PJA Antibody (Center) Blocking Peptide - Background

Ubiquitin is a 76 amino acid highly conserved eukaryotic polypeptide that selectively marks cellular proteins for proteolytic degradation by the 26S proteasome. The process of target selection, covalent attachment and shuttle to the 26S proteasome is a vital means of regulating the concentrations of key regulatory proteins in the cell by limiting their lifespans. Polyubiquitination is a common feature of this modification. Serial steps for modification include the activation of ubiquitin, an ATP-dependent formation of a thioester bond between ubiquitin and the enzyme E1, transfer by transacylation of ubiquitin from E1 to the ubiquitin conjugating enzyme E2, and covalent linkage to the target protein directly by E2 or via E3 ligase enzyme. Deubiquitination enzymes also exist to reverse the marking of protein substrates. Posttranslational tagging by Ub is involved in a multitude of cellular processes, including the cell cycle, cell growth and differentiation, embryogenesis, apoptosis, signal transduction, DNA repair, regulation of transcription and DNA replication, transmembrane transport, stress responses, the immune response, and nervous system functions.

PJA Antibody (Center) Blocking Peptide - References

Sasaki, A., et al., J. Biol. Chem. 277(25):22541-22546 (2002). Yu, P., et al., Genomics 79(6):869-874 (2002).