

**PJA1 Antibody**  
**Catalog # ASC11882****Specification**

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**PJA1 Antibody - Product Information**

Application	WB, IHC-P, IF, E
Primary Accession	<a href="#">Q8NG27</a>
Other Accession	<a href="#">NP_660095</a> , <a href="#">41281725</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 71 kDa

Application Notes	<b>Observed: 71 kDa KDa</b> <b>PJA1 antibody can be used for detection of PJA1 by Western blot at 1 - 2 µg/ml.</b> <b>Antibody can also be used for immunohistochemistry starting at 5 µg/mL.</b> <b>For immunofluorescence start at 20 µg/mL.</b>
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**PJA1 Antibody - Additional Information**

Gene ID **64219**

**Target/Specificity**

PJA1; PJA1 antibody is human, mouse and rat reactive. At least two isoforms of PJA1 are known to exist; this antibody will detect both isoforms.

**Reconstitution & Storage**

PJA1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

**Precautions**

PJA1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**PJA1 Antibody - 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**

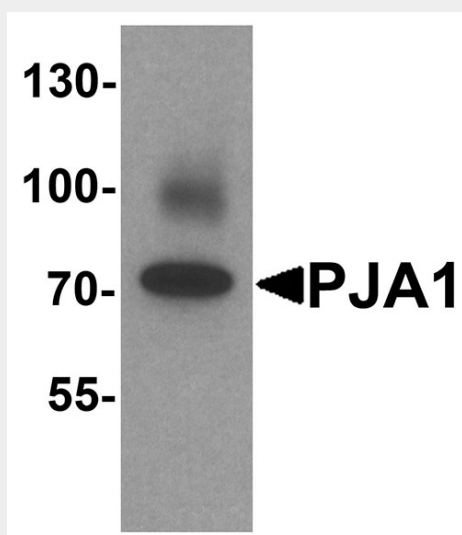
Expressed in various regions of the brain including the cerebellum, cerebral cortex, medulla, occipital pole, frontal lobe, temporal lobe and putamen. Highest levels in the cerebral cortex

## PJA1 Antibody - Protocols

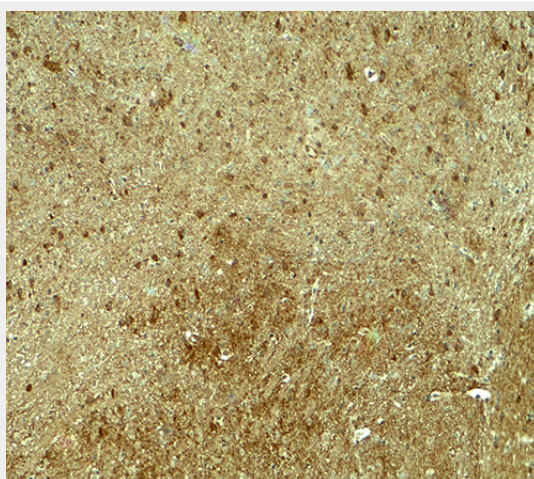
Provided below are standard protocols that you may find useful for product applications.

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

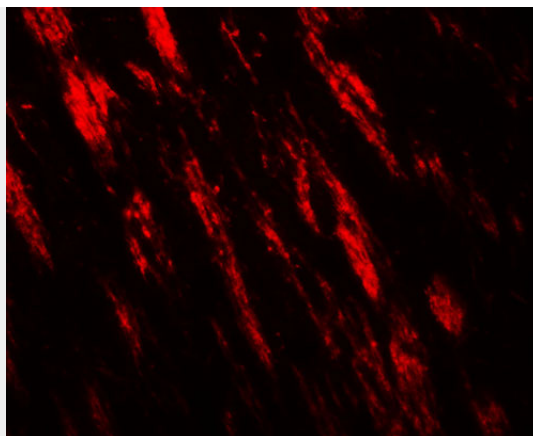
## PJA1 Antibody - Images



Western blot analysis of PJA1 in human brain tissue lysate with PJA1 antibody at 1  $\mu$ g/ml.



Immunohistochemistry of PJA1 in mouse brain tissue with PJA1 antibody at 5  $\mu$ g/ml.



Immunofluorescence of PJA1 in mouse brain tissue with PJA1 antibody at 20 µg/ml.

### **PJA1 Antibody - Background**

Ubiquitination is an important cellular degradation process requiring sequential reactions that are mediated by three enzymes: E1, E2 and E3. PJA1, also known as Praja1 and RING finger protein 70, is a 643 amino acid E2-dependent E3-ubiquitin ligase that is abundantly expressed in the brain (1,2). Through interaction and activation with the E2-ubiquitin ligase UBC4, PJA1 mediates substrate-specific ubiquitination via its RING finger domain and facilitates ubiquitination (3). Overexpression of PJA1 in gastrointestinal cancers suggests that it may be responsible for the degradation of some anti-oncogenic proteins (4,5).

### **PJA1 Antibody - References**

Yu P, Chen Y, Tagle DA, et al. PJA1, encoding a RING-H2 finger ubiquitin ligase, is a novel human X chromosome gene abundantly expressed in brain. *Genomics* 2002; 79:869-74.  
Zoabi M, Sadeh R, de Bie P, et al. PRAJA1 is a ubiquitin ligase for the polycomb repressive complex 2 proteins. *Biochem. Biophys. Res. Commun.* 2011; 408:393-8.  
Doyle JM, Gao J, Wang J, et al. MAGE-RING protein complexes comprise a family of E3 ubiquitin ligases. *Mol. Cell* 2010; 39:963-74.  
Saha T, Vardhini D, Tang Y, et al. RING finger-dependent ubiquitination by PRAJA is dependent on TGF-beta and potentially defines the functional status of the tumor suppressor ELF. *Oncogene* 2006; 25:693-705.