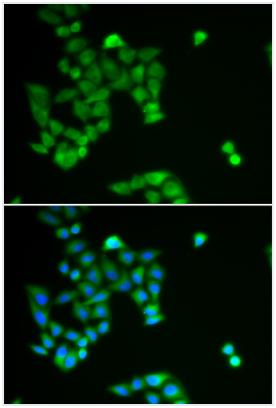
# PJA2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PJA2, Polyclonal Antibody |
| **Full Product Name** | PJA2 antibody |
| **Product Gene Name** | anti-PJA2 antibody |
| **Product Synonym Names** | RNF131; Neurodap1 |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | Antibodies were purified by affinity purification using immunogen. |
| **Concentration** | 1.0 mg/ml (lot specific) |
| **Specificity** | The antibody detects endogenous level of total PJA2 antibody. |
| **Preparation and Storage** | Store at -20 degree C |
| **Molecular Weight** | 78kDa |
| **3D Structure** | ModBase 3D Structure for O43164 |
| **Immunogen Type** | Recombinant Protein |
| **Immunogen Description** | Recombinant protein of human PJA2. |
| **Target Name** | PJA2 |
| **Product Categories/Family for anti-PJA2 antibody** | Total protein Ab |
| **Applications Tested/Suitable for anti-PJA2 antibody** | Western Blot (WB), Immunofluorescence (IF) |
| **Application Notes for anti-PJA2 antibody** | Western blotting: 1:500 - 1:2000<br>Immunofluorescence: 1:50 - 1:100 |
| **Related Product Information for anti-PJA2 antibody** | Has E2-dependent E3 ubiquitin-protein ligase activity. Responsible for ubiquitination of cAMP-dependent protein kinase type I and type II-alpha/beta regulatory subunits and for targeting them for proteasomal degradation. Essential for PKA-mediated long-term memory processes. |
| **Other Notes** | Small volumes of anti-PJA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for PJA2 purchase** | MBS9414381 is an antibody targeting PJA2. Also known as PJA2 antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |



**Immunofluorescence (IF) of anti-PJA2 antibody**
Immunofluorescence analysis of U2OS cell using PJA2 antibody. Blue: DAPI for nuclear staining.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PJA2. It may not necessarily be applicable to this product.

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|---|---|
| **NCBI GI #** | 157412255 |
| **NCBI GeneID** | 9867 |
| **NCBI Accession #** | NP_055634.3 |
| **UniProt Primary Accession #** | O43164 |
| **UniProt Secondary Accession #** | Q68D49; Q8N1G5; A8K6U4; D3DSZ5 |
| **UniProt Related Accession #** | O43164 |
| **GenBank Nucleotide #** | NM_014819.4 |
| **NCBI Official Full Name** | E3 ubiquitin-protein ligase Praja-2 |
| **NCBI Official Synonym Full Names** | praja ring finger 2, E3 ubiquitin protein ligase |
| **NCBI Official Symbol** | PJA2 |
| **NCBI Official Synonym Symbols** | RNF131; Neurodap1 |
| **UniProt Protein Name** | E3 ubiquitin-protein ligase Praja-2 |
| **UniProt Synonym Protein Names** | RING finger protein 131 |
| **Protein Family** | E3 ubiquitin-protein ligase |
| **UniProt Gene Name** | PJA2 |
| **UniProt Synonym Gene Names** | KIAA0438; RNF131; Praja2 |
| **UniProt Entry Name** | PJA2_HUMAN |
| **NCBI Protein Information** | E3 ubiquitin-protein ligase Praja-2 |

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| **UniProt Comments for PJA2** | PJA2: Has E2-dependent E3 ubiquitin-protein ligase activity. Responsible for ubiquitination of cAMP-dependent protein kinase type I and type II-alpha/beta regulatory subunits and for targeting them for proteasomal degradation. Essential for PKA- mediated long-term memory processes. Binds ubiquitin-conjugating enzymes (E2s). In vitro, interacts with the ubiquitin-conjugating enzyme, UBE2D2. The phosphorylated form interacts with PRKAR1A, PRKAR2A and PRKAR2B. Binds the catalytic subunits of cAMP-dependent protein kinase. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Ligase; Ubiquitin conjugating system; EC 6.3.2.-; EC 6.3.2.19; Ubiquitin ligase<br><br>Chromosomal Location of Human Ortholog: 5q21.3<br><br>Cellular Component: Golgi membrane; postsynaptic membrane; endoplasmic reticulum membrane; cytoplasm; postsynaptic density; plasma membrane; cell junction<br><br>Molecular Function: zinc ion binding; ubiquitin-protein ligase activity; ligase activity<br><br>Biological Process: long-term memory; protein ubiquitination |
| **Research Articles on PJA2** | **1.** Detection of PJA2-FER fusion mRNA is correlated with poor postoperative survival periods in non-small cell lung cancer. |
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