

## Rabbit anti-Mouse, Rat TJP2 Polyclonal Antibody | anti-TJP2 antibody

Anti-TJP2 antibody

|                              |                       |                                 |                                                           |
|------------------------------|-----------------------|---------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA45424</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|------------------------------|-----------------------|---------------------------------|-----------------------------------------------------------|

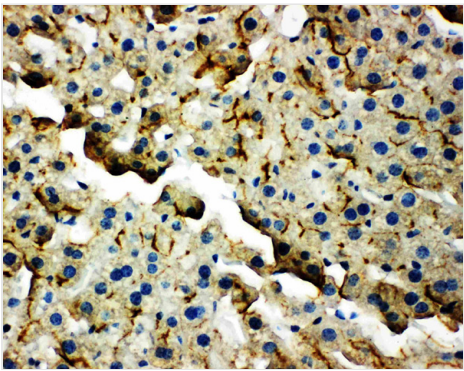
### PRODUCT SYNONYMS

TJP2; Polyclonal Antibody; Anti-TJP2 antibody; Tight junction protein ZO-2; tight junction protein 2; Friedreich ataxia region gene X104(tight junction protein ZO-2) antibody; MGC26306 antibody; Tight junction protein 2 antibody; Tight junction protein ZO 2 antibody; Tight junction protein ZO-2 antibody; TJP2 antibody; X104 antibody; ZO 2 antibody; ZO-2 antibody; ZO2 antibody; ZO2\_HUMAN antibody; Zona occludens protein 2 antibody; Zonula occludens protein 2 antibody; anti-TJP2 antibody

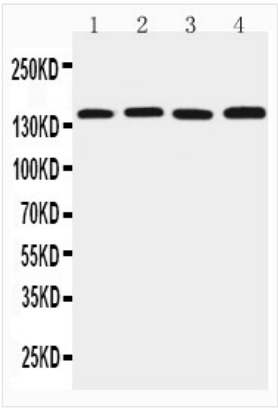
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                      |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                               |
| Reactivity                                     | Mouse, Rat                                                                                                                                                                                           |
| Clonality                                      | Polyclonal                                                                                                                                                                                           |
| Isotype                                        | IgG                                                                                                                                                                                                  |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                         |
| Form/Format                                    | Lyophilized                                                                                                                                                                                          |
| Sequence Length                                | 1167                                                                                                                                                                                                 |
| Applicable Applications for anti-TJP2 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                        |
| Immunogen                                      | A synthetic peptide corresponding to a sequence at the C-terminus of mouse TJP2 (1149-1167aa AHSKRGYYSQPSRYRDETEL), identical to the related rat sequence.                                           |
| Contents                                       | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.                                                                                                               |
| Reconstitution                                 | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                 |
| Preparation and Storage                        | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

IMAGES



IHC (Immunohistochemistry)  
Anti-TJP2 antibody, AAA45424, IHC(P)IHC(P): Mouse Liver Tissue



WB (Western Blot)  
Anti-TJP2 antibody, AAA45424, Western blottingLane 1: Rat Brain Tissue LysateLane 2: PC-12 Cell LysateLane 3: Mouse Brain Tissue LysateLane 4: HEPA Cell Lysate

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Related Product Information for anti-TJP2 antibody</b> | <p><b>Description:</b> Rabbit IgG polyclonal antibody for Tight junction protein ZO-2(TJP2) detection. Tested with WB, IHC-P in Mouse, Rat.</p> <p><b>Background:</b> TJP2(Tight Junction Protein 2), also known as Zona Occludens 2 or ZO2, is a protein that in humans is encoded by the TJP2 gene. Tight junction proteins(TJPs) belong to a family of membrane-associated guanylate kinase(MAGUK) homologs that are involved in the organization of epithelial and endothelial intercellular junctions. Duclos et al.(1994) mapped the TJP2 gene telomeric to the Friedreich ataxia critical region on chromosome 9q13-q21. TJP2 lies about 70 kb centromeric to the X123 gene and is transcribed in the centromere-to-telomere direction. Using in vitro assays and immunoprecipitation studies, Itoh et al.(1999) showed that the mouse Tjp1, Tjp2, and Tjp3 PDZ1 domains interacted with the C-terminal cytoplasmic domains of Cldn1 through Cldn8. In the mouse inner ear, Walsh et al.(2010) found that Tjp2 expression decreased rapidly between E16.5 and age 1 week to a level in adult mice that was approximately 50% of the level at birth(P0).</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 94730446                                                                                                                                                                                          |
| NCBI GeneID                      | 21873                                                                                                                                                                                             |
| UniProt Accession #              | Q9Z0U1; Q8K210                                                                                                                                                                                    |
| Molecular Weight                 | 131,280 Da                                                                                                                                                                                        |
| NCBI Official Full Name          | Tight junction protein ZO-2                                                                                                                                                                       |
| NCBI Official Synonym Full Names | tight junction protein 2                                                                                                                                                                          |
| NCBI Official Symbol             | Tjp2                                                                                                                                                                                              |
| NCBI Official Synonym Symbols    | ZO-2                                                                                                                                                                                              |
| NCBI Protein Information         | tight junction protein ZO-2; zona occludens protein 2; zonula occludens protein 2; Tight junction protein ZO-2 (Zonula occludens 2 protein) (Zona occludens 2 protein) (Tight junction protein 2) |
| UniProt Protein Name             | Tight junction protein ZO-2                                                                                                                                                                       |
| UniProt Gene Name                | Tjp2                                                                                                                                                                                              |
| UniProt Synonym Gene Names       | Zo2                                                                                                                                                                                               |
| UniProt Entry Name               | ZO2_MOUSE                                                                                                                                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

