Datasheet for ABIN2774858

# anti-GJB2 antibody (Middle Region)

2 Images

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## Overview

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| Quantity: | 100 µL |
| Target: | GJB2 |
| Binding Specificity: | Middle Region |
| Reactivity: | Human, Mouse, Rat, Dog, Horse, Rabbit, Cow, Guinea Pig, Sheep |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This GJB2 antibody is un-conjugated |
| Application: | Western Blotting (WB) |

## Product Details

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| Immunogen: | The immunogen is a synthetic peptide directed towards the N terminal region of human GJB2 |
| Sequence: | STPALLVAMH VAYRRHEKKR KFIKGEIKSE FKDIEEIKTQ KVRIEGSLWW |
| Predicted Reactivity: | Cow: 86%, Dog: 100%, Guinea Pig: 86%, Horse: 100%, Human: 100%, Mouse: 86%, Rabbit: 79%, Rat: 93%, Sheep: 86% |
| Characteristics: | This is a rabbit polyclonal antibody against GJB2. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification: | Protein A purified |

## Target Details

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| Target: | GJB2 |

## Target Details

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| Alternative Name: | GJB2 (GJB2 Products) |
| Background: | Gap junctions were first characterized by electron microscopy as regionally specialized structures on plasma membranes of contacting adherent cells. These structures were shown to consist of cell-to-cell channels. Proteins, called connexins, purified from fractions of enriched gap junctions from different tissues differ. The connexins are designated by their molecular mass. Another system of nomenclature divides gap junction proteins into 2 categories, alpha and beta, according to sequence similarities at the nucleotide and amino acid levels. For example, CX43 (MIM 121014) is designated alpha-1 gap junction protein, whereas CX32 (GJB1, MIM 304040) and CX26 are called beta-1 and beta-2 gap junction proteins, respectively. This nomenclature emphasizes that CX32 and CX26 are more homologous to each other than either of them is to CX43.<br>Alias Symbols: HID, KID, PPK, CX26, DFNA3, DFNB1, NSRD1, DFNA3A, DFNB1A<br>Protein Interaction Partner: CD14, CNST, FBXO2, SKP1, UBC, GJB6, CAV1, GJB1,<br>Protein Size: 226 |
| Molecular Weight: | 25 kDa |
| Gene ID: | 2706 |
| NCBI Accession: | NM_004004, NP_003995 |
| UniProt: | P29033 |
| Pathways: | Sensory Perception of Sound, Cell-Cell Junction Organization |

## Application Details

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| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment: | Antigen size: 226 AA |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | Lot specific |
| Buffer: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose. |
| Preservative: | Sodium azide |

## Handling

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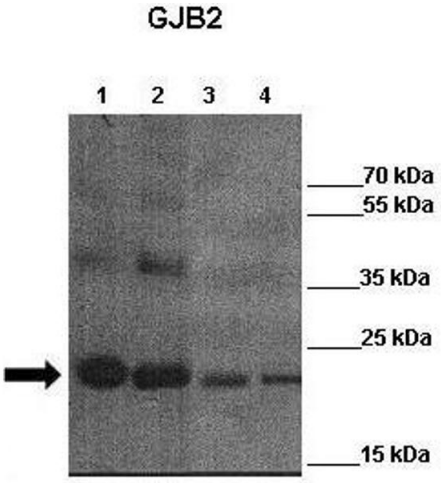
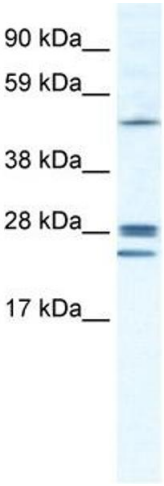
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

## Validation report #100039 for Immunocytochemistry (ICC)




**Western Blotting**

**Image 1.** WB Suggested Anti-GJB2 Antibody Positive Control: Lane 1: 4ug mCx26 elution fraction 6 Lane 2: 4ug mCx26 elution fraction 7 Lane 3: 4ug mCx26 elution fraction 6 + other Cx26 antibody Lane 4: 4ug mCx26 elution fraction 7 + other Cx26 antibody Primary Antibody Dilution : 1:3000 Secondary Antibody : Anti-rabbit-HRP Secondry Antibody Dilution : 1:3000 Submitted by: Juan Zou, Georgia state unviersity




**Western Blotting**

**Image 2.** WB Suggested Anti-GJB2 Antibody Titration: 1.25ug/ml ELISA Titer: 1:62500 Positive Control: Human Lung