

## Recombinant Human GJA8 Protein, GST-tagged

**Cat. No.** GJA8-4924H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Human GJA8 full-length ORF ( AAI46508.1, 1 a.a. - 433 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | This gene encodes a transmembrane connexin protein that is necessary for lens growth and maturation of lens fiber cells. The encoded protein is a component of gap junction channels and functions in a calcium and pH-dependent manner. Mutations in this gene have been associated with zonular pulverulent cataracts, nuclear progressive cataracts, and cataract-microcornea syndrome. [provided by RefSeq, Dec 2009]                                                                                                         |
| <b>Molecular Mass</b>   | 74.58 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | <p>MGDWSFLGNILEEVNEHSTVIGRVWLTVLFI FRILILGTAAEFVWGDEQSD FVCNTQQ</p> <p>PGCENV CYDEAFPI SHIRLWVLQIIFVSTPSLMYVGHAVHYVRMEEKRKSREA EELG</p> <p>QQAGTNGGPDQGSVKKSSGSKGTTKFRLEG TLLRTYICHII FKTLEFVG FIVGHYFLY</p> <p>GFRILPLYRCSRWPCPNVVD CFVSRPTEKTIFILFMLSVASVSLFLNVMELGHLGLKG</p> <p>IRSALKRPVEQPLGEIPEKSLHSIAVSSIQKAKGYQLLEEEKIVSHYFPLTEVGMVETS</p> <p>PLPAKPFNQFE EKISTG PLGDL SRGYQETLPSYAQVGAQEVEGEGPPAE EGAEPEV</p> <p>GEKKEEAERLTTEE QEKVAVPEGEKVETPGVDKEGEKEEPQSEK VSKQGLPAE KTP</p> <p>SLCPELT TDDARPLSRLSKASSRARSDDLTV</p> |

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                 |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                          |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                          |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Name</b>        | GJA8 gap junction protein, alpha 8, 50kDa [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b>  | GJA8                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>         | GJA8; gap junction protein, alpha 8, 50kDa; CAE, CAE1, CZP1, gap junction protein, alpha 8, 50kD (connexin 50), gap junction protein, alpha 8, 50kDa (connexin 50); gap junction alpha-8 protein; connexin 50; CX50; connexin-50; lens fiber protein MP70; cell surface glycoprotein; lens intrinsic membrane protein MP70; gap junction membrane channel protein alpha-8; CAE; CAE1; CZP1; MP70; |
| <b>Gene ID</b>          | 2703                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>      | NM_005267                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>   | NP_005258                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MIM</b>              | 600897                                                                                                                                                                                                                                                                                                                                                                                            |

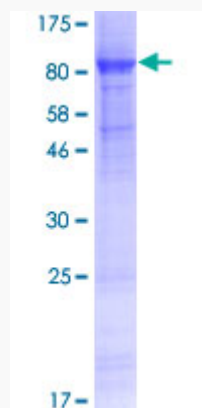
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UniProt ID P48165

Quality Control  
Testing



12.5% SDS-PAGE Stained with Coomassie Blue.

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