

# Recombinant Full Length Human ITM2B Protein, GST-tagged

**Cat. No.** ITM2B-5823HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Human ITM2B full-length ORF ( NP_068839.1, 1 a.a. - 266 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 266 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | Amyloid precursor proteins are processed by beta-secretase and gamma-secretase to produce beta-amyloid peptides which form the characteristic plaques of Alzheimer disease. This gene encodes a transmembrane protein which is processed at the C-terminus by furin or furin-like proteases to produce a small secreted peptide which inhibits the deposition of beta-amyloid. Mutations which result in extension of the C-terminal end of the encoded protein, thereby increasing the size of the secreted peptide, are associated with two neurogenerative diseases, familial British dementia and familial Danish dementia. [provided by RefSeq, Oct 2009] |
| <b>Molecular Mass</b>   | 56.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MVKVTFNSALAQKEAKKDEPKSGEEALIIPDAVAVDCKDPDDVVPVGQRRRAWCW<br>CMCFGLAFMLAGVILGGAYLYKYFALQPDDVYYCGIKYIKDDVILNEPSADAPAALYQ<br>TIEENIKIFEEEEVEFISVPVPEFADSDPANIVHDFNKKLTAYLDLNLDKCYVIPLNTSIV<br>MPPRNLELLINIKAGTYLPQSYLIHEHVMITDRIENIDHLGFFIYRLCHDKETYKLQRR<br>ETIKGIQKREASNCFAIRHFENKFAVETLICS                                                                                                                                                                                                                                                                                                                                                                      |

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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.                                          |

## GENE INFORMATION

|                        |                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ITM2B integral membrane protein 2B [ Homo sapiens ]                                                                                                                         |
| <b>Official Symbol</b> | ITM2B                                                                                                                                                                       |
| <b>Synonyms</b>        | ITM2B; integral membrane protein 2B; BRI; E3 16; E25B; ABri/ADan amyloid peptide; transmembrane protein BRI; BRICHOS domain containing 2B; FBD; ABRI; BRI2; E3-16; BRICD2B; |
| <b>Gene ID</b>         | 9445                                                                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_021999                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_068839                                                                                                                                                                   |
| <b>MIM</b>             | 603904                                                                                                                                                                      |
| <b>UniProt ID</b>      | Q9Y287                                                                                                                                                                      |

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