# Recombinant Human GRB2

**Cat. No.** GRB2-28483TH **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant full length human GRB2 with an N-terminal proprietary tag; amino acids 1-217, 49kDa. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 1-217 a.a. |
| **Description** | The protein encoded by this gene binds the epidermal growth factor receptor and contains one SH2 domain and two SH3 domains. Its two SH3 domains direct complex formation with proline-rich regions of other proteins, and its SH2 domain binds tyrosine phosphorylated sequences. This gene is similar to the Sem5 gene of C.elegans, which is involved in the signal transduction pathway. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. |
| **Form** | Liquid |
| **Purity** | >95% by SDS-PAGE |
| **Storage buffer** | Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5 |
| **Storage** | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles. |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **Sequence Similarities** | Belongs to the GRB2/sem-5/DRK family.Contains 1 SH2 domain.Contains 2 SH3 domains. |
| **Full Length** | Full L. |

## GENE INFORMATION

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| **Gene Name** | GRB2 growth factor receptor-bound protein 2 [ Homo sapiens ] |
| **Official Symbol** | GRB2 |
| **Synonyms** | GRB2; growth factor receptor-bound protein 2; NCKAP2; |
| **Gene ID** | 2885 |
| **mRNA Refseq** | NM_002086 |
| **Protein Refseq** | NP_002077 |
| **MIM** | 108355 |
| **Uniprot ID** | P62993 |
| **Chromosome Location** | 17q24-q25 |
| **Pathway** | Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; |
| **Function** | SH3/SH2 adaptor activity; ephrin receptor binding; epidermal growth factor receptor |

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| | binding; insulin receptor substrate binding; phosphoprotein binding; |

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