

## Recombinant Human ERAS Protein, GST-tagged

**Cat. No.** ERAS-3440H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human ERAS full-length ORF ( NP_853510.1, 1 a.a. - 233 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 constitutively active member of the small GTPase Ras protein family. The encoded protein activates the phosphatidylinositol 3-kinase signal transduction pathway in undifferentiated stem cells, but is not expressed in differentiated cells. This gene may be involved in cancer and chemotherapy resistance. [provided by RefSeq, Dec 2012] |
| <b>Molecular Mass</b>   | 51.70 kDa                                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | MELPTKPGTFDLGLATWSPSFQGETHRAQARRRDVGRQLPEYKAVVVGASGVGKS<br>ALTIQLNHQCFVEDHDPTIQDSYWKELTLDSGDCILNVLDTAGQAIHRALRDQCLAVC<br>DGVLGVFALDDPSSLIQLQQIWATWGPHPAQPLVLVGNKCDLVTTAGDAHAAAAAL<br>AHSWGAHFVETSAKTRQGVVEEAFSLLVHEIQRVQEAMAKEPMARSCREKTRHQKA<br>TCHCGCSVA                                                                                                         |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                  |

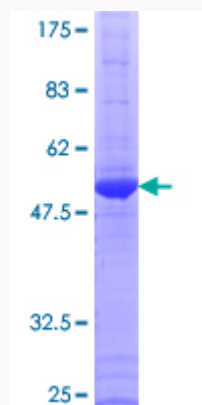
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|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>        | ERAS ES cell expressed Ras [ Homo sapiens ]                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>  | ERAS                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>         | ERAS; ES cell expressed Ras; HRAS2, HRASP, v Ha ras Harvey rat sarcoma viral oncogene homolog pseudogene; GTPase ERas; E-Ras; small GTPase protein E-Ras; embryonic stem cell-expressed Ras; v-Ha-ras Harvey rat sarcoma viral oncogene homolog 2; v-Ha-ras Harvey rat sarcoma viral oncogene homolog pseudogene; HRAS2; HRASP; MGC126691; MGC126693; |
| <b>Gene ID</b>          | 3266                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>      | NM_181532                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>   | NP_853510                                                                                                                                                                                                                                                                                                                                             |
| <b>MIM</b>              | 300437                                                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>       | Q7Z444                                                                                                                                                                                                                                                                                                                                                |

**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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