

## Recombinant Human ANK1 protein, GST-tagged

**Cat. No.** ANK1-561H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human ANK1 full-length ORF ( AAH30957, 1 a.a. - 155 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | <p>Ankyrins are a family of proteins that link the integral membrane proteins to the underlying spectrin-actin cytoskeleton and play key roles in activities such as cell motility, activation, proliferation, contact and the maintenance of specialized membrane domains. Multiple isoforms of ankyrin with different affinities for various target proteins are expressed in a tissue-specific, developmentally regulated manner. Most ankyrins are typically composed of three structural domains: an amino-terminal domain containing multiple ankyrin repeats; a central region with a highly conserved spectrin binding domain; and a carboxy-terminal regulatory domain which is the least conserved and subject to variation. Ankyrin 1, the prototype of this family, was first discovered in the erythrocytes, but since has also been found in brain and muscles. Mutations in erythrocytic ankyrin 1 have been associated in approximately half of all patients with hereditary spherocytosis. Complex patterns of alternative splicing in the regulatory domain, giving rise to different isoforms of ankyrin 1 have been described. Truncated muscle-specific isoforms of ankyrin 1 resulting from usage of an alternate promoter have also been identified. [provided by RefSeq, Dec 2008]</p> |
| <b>Molecular Mass</b>   | 42.79 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|                       |                                                                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>    | MWTFVTQLLVTLVLLSFFLVSCQNMHIVRGSLCFVLKHHQELDKELGESEDLSDD<br>EETISTRVVRRRVFLKGNEFQNIPEGVTEEQFTDEQGNIVTKKIIRKVVVRQIDLSSAD<br>AAQEHEEVELRGSLQPDLEGRKGAQIVKRASLKRKQ |
| <b>Applications</b>   | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);<br>Antibody Production; 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.                                                                                       |

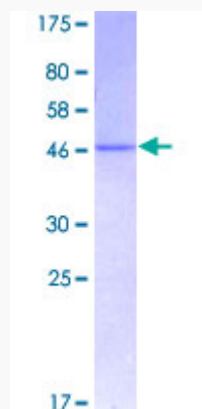
## GENE INFORMATION

|                        |                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">ANK1 ankyrin 1, erythrocytic [ Homo sapiens ]</a>                                     |
| <b>Official Symbol</b> | <a href="#">ANK1</a>                                                                              |
| <b>Synonyms</b>        | ANK1; ankyrin 1, erythrocytic; ANK; ankyrin-1; SPH1; ANK-1; ankyrin-R; erythrocyte ankyrin; SPH2; |
| <b>Gene ID</b>         | <a href="#">286</a>                                                                               |
| <b>mRNA Refseq</b>     | <a href="#">NM_000037</a>                                                                         |
| <b>Protein Refseq</b>  | <a href="#">NP_000028</a>                                                                         |
| <b>MIM</b>             | <a href="#">612641</a>                                                                            |
| <b>UniProt ID</b>      | <a href="#">P16157</a>                                                                            |

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12.5% SDS-PAGE Stained with Coomassie Blue.

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