

# Recombinant Human ESPN Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** ESPN-4412H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | ESPN MS Standard C13 and N15-labeled recombinant protein (NP_113663) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene encodes a multifunctional actin-bundling protein. It plays a major role in regulating the organization, dimensions, dynamics, and signaling capacities of the actin filament-rich, microvillus-type specializations that mediate sensory transduction in various mechanosensory and chemosensory cells. Mutations in this gene are associated with autosomal recessive neurosensory deafness, and autosomal dominant sensorineural deafness without vestibular involvement. |
| <b>Molecular Mass</b>   | 91.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MALEQALQAARQGELDVLRSLHAAGLLGPSLRDPLDALPVHHAARAGKLHCLRFLV<br>EEAALPAAARARNGATPAHDASATGHLACLQWLLSQGGCRVQDKDNSGATVLHLA<br>ARFGHPEVVNWLLHHGGGDPTAATDMGALPIHYAAAKGDFPSLRLLVEHYPEGVNA<br>QTKNGATPLYLACQEGHLEVTQYLVQECGADPHARAHDGMTPLHAAAQMGHSPVI<br>VWLVSCTDVSLSEQDKDGATAMHFAASRGHTKVLSWLLLHGGEISADLWGGTPLH<br>DAAENGELECCQILVVNGAELDVRDRDGYTAADLSDFNGHSHCTRYLRTVENLSVE<br>HRVLSRDPSAELEAKQPDSGMSSPNTTVSVQPLNFDLSSPTSTLSNYDSCSSSHSSI                                                        |

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KGQHPPCGLSSARAADIQSYMDMLNPELGLPRGTIGKPTPPPPPPSFPPPPPPPGT  
 QLPPPPPGYPAPKPPVGPQAADIYMQTKNKL RHVETEALKKELSSCDGHDGLRRQD  
 SSRKPRAF SKQPSTGDYYRQLGRCPGETLAARPGMAHSEEVRRARQPARAGCPRL  
 GPAARGSLEGPSAPPQAALLPGNHVPNGCAADPKASRELPPPPPPPPPLPEAASS  
 PPPAPPLPLESAGPGCGQRRSSSSTGSTKSFNMMSP TGDNSELLAEIKAGKSLKPT  
 PQSKGLTTVFSGIGQPAFQPDSPLPSVSPALSPVRSPTPPAAGFQPLLNGSLVPVPP  
 TTPAPGVQLDVEALIPTHDEQGRPIEWKRQVMVRKMQLKMQEEEEQRRKEEEEE  
 ARLASMPAWRRDLLRKKLEEEREQKRKEEERQKQEELRREKEQSEKLRTLGYDES  
 KLAPWQRQVILKKGDI AKYTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** ESPN espin [ Homo sapiens (human) ]

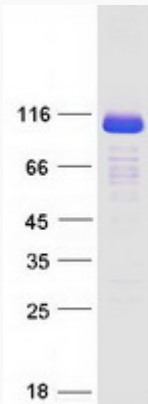
**Official Symbol** ESPN

**Synonyms** ESPN; espin; deafness, autosomal recessive 36, DFNB36; ectoplasmic specialization protein; autosomal recessive deafness type 36 protein; DFNB36; LP2654; DKFZp434A196; DKFZp434G2126;

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|----------------|-------------------------------------------------------------------------------------|
| Gene ID        | 83715                                                                               |
| mRNA Refseq    | NM_031475                                                                           |
| Protein Refseq | NP_113663                                                                           |
| MIM            | 606351                                                                              |
| UniProt ID     | B1AK53                                                                              |
| SDS-PAGE       |  |