

# Recombinant Human ANK2 Protein, MYC/DDK-tagged, C13 and N15-labeled

**Cat. No.** ANK2-103H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	ANK2 MS Standard C13 and N15-labeled recombinant protein (NP_066187) 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 member of the ankyrin family of proteins that link the integral membrane proteins to the underlying spectrin-actin cytoskeleton. Ankyrins play key roles in activities such as cell motility, activation, proliferation, contact and the maintenance of specialized membrane domains. 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. The protein encoded by this gene is required for targeting and stability of Na/Ca exchanger 1 in cardiomyocytes. Mutations in this gene cause long QT syndrome 4 and cardiac arrhythmia syndrome. Multiple transcript variants encoding different isoforms have been described.
<b>Molecular Mass</b>	205.6 kDa
<b>AA Sequence</b>	MMNEDAAQKSDSGEKFNQSSQRRKRPKKSDSNASFLRAARAGNLDKVVEYLKGGI DINTCNQNGLNALHLAAKEGHVGLVQELLGRGSSVDSATKKGNTALHIASLAGQAEV

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VKVLVKEGANINAQSQNGFTPLYMAAQENHIDVVKYLLENGANQSTATEDGFTPLAV  
ALQQGHNQAVAILLENDTKGKVRPALHIAARKDDTKSAALLQNDHNADVQSKMM  
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KLLLDGRGGQIDAKTRDGLTPLHCAARSGHDQVVELLLERGAPLLARTKNGLSPLHMA  
AQGDHVECVKHLQHKAPVDDVTLDYLTALHVAACHCGHYRVTKLLLDKRAPNARA  
LNGFTPLHIACKKNRIKVMELLVKYGASIQAITESGLTPIHVAAFMGHLNIVLLLLQNGA  
SPDVTNIRGETALHMAARAGQVEVVRCLLRNGALVDARAREEQTPLHIASRLGKTEI  
VQLLLQHMAHPDAATTNGYTPLHISAREGQVDVASVLEAGAAHSLATKKGFTPLHV  
AAKYGSLDVAKLLLQRRAAADSAGKNGLTPLHVAAHYDNQKVALLLLEKGASPHATA  
KNGYTPLHIAAKKNMQIASTLLNYGAETNIVTKQGVTPHLASQEGHTDMVTLKDK  
GANIHMSTKSGLTSLHLAAQEDKVVADILTKHGADQDAHTKLGYPPLIVACHYGNV  
KMNFLKQGANVNAKTKNGYTPLHQAAQQGHTHIINVLLQHGAKPNATTANGNTA  
LAIKRLGYISVVDTLKVVTEEVTTTTTITEKHKLNPETMTEVLDVSDEEGDDTMTG  
DGGEYLRPEDLKELGDDSLPSSQFLDGMNYLRYSLGGRSDSLRSFSSDRSHTLSH  
ASYLRDSAVMDDSVVIPSHQVSTLAKEAERNYSYRLSWGTEENLDNVALSSSPIHSGFL  
VSFMDVARGGAMRGRHNLRIIIPPRKCTAPTRVTCRLVKRHLATMPPMVEGEG  
LASRLIEVGPSSGAQFLGKLHLPTAPPPLNEGESLVSRIQLGPPGTKFLGPVIVEIPHF  
AALRGKERELVLRSENGDSWKEHFCDYTEDELNEILNGMDEVLDSPEDLEKKRIC  
RIITRDFPQYFAVVSRIKQDSNLIGPEGGVLSSTVVPQVQAVFPEGALTKRIRVGLQA  
QPMHSELVKKILGNKATFSPIVTLEPRRRKFHKPITMTIPVPKASSDVMLNGFGGDAP  
TLRLLCSITGGTTPAQWEDITGTTPLTFVNECVSFTTNVSARFWLIDCRQIQESVTFA  
SQVYREIICVPYMAKFVVFASKSHDPIEARLRCFCMTDDKVDKLEQQENFAEVARSR  
DVEVLEGKPIYVDCFGNLVPLTKSGQHIFSFFAFKENRLPLFVKVRDTTQEPCGRL  
SFMKEPKSTRGLVHQAICNLNITLPIYTKESDQEQQEEIDMTSEKNPQDEQERIEE  
RLAYIADHLGFSWTELARELDFTEEQIHQIRIENPNSLQDQSHALLKYWLERDGHKAT  
DTNLVECLTKINRMDIVHLMETNTEPLQERISHSYAEIEQTITLDHSEGFSVLQEELCT  
AQHKQKEEQAVSKESETCDHPPIVSEEDISVGYSTFQDGVPKTEGDSSATALFPQT  
HKEQVQQDFSGKMQLPEESSLEYQQEYFVTTPTGTETSETQKAMIVPSSPSKTPEE  
VSTPAEEEKLYLQPTSSERGGSPIIQEPEEPSEHREESSPRKTSLVIVESADNPET  
CERLDEDAFAFEKGDMPPEIPPETVTEEEYIDEHGHTVVKKVTRKIIRYVSSEGTEKE

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EIMVQGMPQEPVNIEEGDGYSKVIKRVVLKSDTEQSEDNNETRTRPLEQKLISEEDL  
AANDILDYKDDDDKV

**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** [ANK2 ankyrin 2 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [ANK2](#)

**Synonyms** ANK2; ankyrin 2; ANK-2; brank-2; LQT4; ankyrin-2; ankyrin 2, neuronal; ankyrin B; ankyrin, brain; ankyrin-2, nonerythrocytic; non-erythroid ankyrin

**Gene ID** [287](#)


**mRNA Refseq** [NM\\_020977](#)

**Protein Refseq** [NP\\_066187](#)

**MIM** [106410](#)

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UniProt ID

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