

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

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

SPECIFICATION

Product Overview	ANK2 MS Standard C13 and N15-labeled recombinant protein (NP_066187) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	205.6 kDa
AA Sequence	MMNEDAAQKSDSGEKFNGSSQRRKRPKKSDSNASFLRAARAGNLDKVVEYLKGGI DINTCNQNGNLNALHLAAKEGHVGLVQELLGRGSSVDSATKKGN TALHIASLAGQAEV

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VKVLVKEGANINAQSQNGFTPLYMAAQENHIDVVKYLLENGANQSTATEDGFTPLAV
ALQQGHNQAVAILLENDTKGKVRLPALHIAARKDDTKSAALLQNDHNADVQSKMM
VNRTTESGFTPLHIAAHYGNVNVATLLLNRGAADVFTARNGITPLHVASKRGNTNMV
KLLLDGRGGQIDAKTRDGLTPLHCAARSGHDQVVELLLERGAPLLARTKNGLSPLHMA
AQGDHVECVKHLLQHKAPVDDVTLDYLTALHVAAHCGHYRVTKLLLDKRANPNARA
LNGFTPLHIACKKNRIKVMELLVKYGASIQAITESGLTPIHVAAFMGHLNIVLLLLQNGA
SPDVTNIRGETALHMAARAGQVEVVRCLLRNGALVDARAREEQTPLHIASRLGKTEI
VQLLLQHMAHPDAATTNGYTPLHISAREGQVDVASVLEAGAAHSLATKKGFTPLHV
AAKYGSLDVAKLLLQRRAAADSAGKNGLTPLHVAAHYDNQKVALLLLEKGASPHATA
KNGYTPLHIAAKKNQMQUIASTLLNYGAETNIVTKQGVTPHLASQEGHTDMVTLLLDK
GANIHMSTKSGLTSLHLAAQEDKVVNADILTKHGADQDAHTKLGYTPLIVACHYGNV
KMVNFKKQGANVNAKTKNGYTPLHQAAQQGHTHIINVLLQHGAKPNATTANGNTA
LAIKRLGYISVVDTLKVVTEEVTTTTTITEKHKLNPETMTEVLVDVSDEEGDDTMTG
DGGEYLRPEDLKELGDDSLPSSQFLDGMNYLRYSLEGGRSDSLRSFSSDRSHTLSH
ASYLRDSAVMDDSVVIPSHQVSTLAKEAERNYSYRLSWGTEENLDNVALSSSPIHSGFL
VSFMDVARGGAMRGCRRHNGLRRIIPPRKCTAPTRVTCRLVKRHRLATMPPMVEGEG
LASRLIEVGPSGAQFLGKLHLPTAPPPLNEGESLVSRILQLGPPGTKFLGPVIVEIPHF
AALRGKERELVLRSENGDSWKEHFCDYTEDELNEILNGMDEVLDSPEDLEKKRIC
RIITRDFPQYFAVVSRIKQDSNLIGPEGGLVLSSTVVPQVQAVFPEGALTKRIRVGLQA
QPMHSELVKKILGNKATFSPIVTLEPRRRKFHKPITMTIPVPKASSDVMLNGFGGDAP
TLRLCSITGGTTPAQWEDITGTTPLTFVNECVSFTTNVSARFWLIDCRQIQESVTFA
SQVYREIICVPYMAKFVVFASHDPIEARLRCFCMTDDKVDKTLEQQENFAEVARSR
DVEVLEGKPIYVDCFGNLVPLTKSGQHHIFSFPAFKENRLPLFVKVRDTTQEPCGRL
SFMKEPKSTRGLVHQAICNLNITLPIYTKESSEDQEQQEEIDMTSEKNPQDEQERIEE
RLAYIADHLGFSWTELARELDFTEEQIHQIRIENPNLSLQDQSHALLKYWLERDGHKAT
DTNLVECLTKINRMDIVHLMETNTEPLQERISHSYAEIEQTITLDHSEGFSVLQEELCT
AQHKQKEEQAVSKESETCDHPPIVSEEDISVGYSTFQDGVPKTEGDSSATALFPQT
HKEQVQQDFSGKMQLPEESSLEYQQEYFVTTPTGTETSETQKAMIVPSSPSKTPEE
VSTPAEEELKYLQTPPTSSERGGSPHIEPEEPSEHREESSPRKTSLVIVESADNQPET
CERLDEDAFAFEKGDDMPEIPPETVTEEEYIDEHGHTVVKKVKTRKIIRYVSSEGTEKE

	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

Q01484

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