

## Product datasheet for **PH314181**

### Ankyrin brain (ANK2) (NM\_020977) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ANK2 MS Standard C13 and N15-labeled recombinant protein (NP_066187)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214181
Predicted MW:	205.6 kDa



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**Protein Sequence:** >RC214181 representing NM\_020977  
 Red=Cloning site Green=Tags(s)

MMNEDAAQKSDSGEKFNGSSQRRKRPKKSDSNASFLRAARAGNLDKVVVEYLKGGIDINTCNQNLNALHL  
 AAKEGHVGLVQELLGRGSSVDSATKKGNTALHIASLAGQAEVVKVLVKEGANINAQSQNGFTPLYMAAQE  
 NHIDVVKYLLENGANQSTATEDGFTPLAVALQQGHNQAVAILLENDTKGKVRPLALHIAARKDDTKSAAL  
 LLQNDHNADVQSKMMVNRRTTESGFTPLHIAAHYGNVNVATLLLNRGAAVDF TARNGITPLHVASKRGNTN  
 MYKLLLDREGGQIDAKTRDGLTPLHCAARSGHDQVVVELLLERGAPELLARTKNGLSPLHMAAQGDHVECVKH  
 LLQHKAPVDDVTLDYLTALHVAACHGHYRVTKLLLDKRAPNPARALNGFTPLHIAACKKNRIKVMELLVKY  
 GASIQAITESGLTPIHVAAFMGHLNIVLLLLQNGASPDVTNIRGETALHMAARAGQVEVVRCLLRNGALV  
 DARAREEQTPLHIASRLGKTEIVQLLLQMAHPDAATTNGYTPLHISAREGQVDVASVLLLEAGAAHSLAT  
 KKGFTPLHVAAYGSLDAKLLLRRAADSAGKNGLTPLHVAHYDNQKVALLLLEKGGASPHATAKNGY  
 TPLHIAAKKNQMQIASTLLNYGAETNIVTKQGVTPHLASQEGHTDMVTLLLDKGANIHMSTKSGLTSLH  
 LAAQEDKVNVDILT KHGADQDAHTKLYTPLIVACHYGNVVMVNFLLKQGANVNAKTNGYTPLHQAAQ  
 QGHTHIINVLQHGAKPNATTANGNTALAIKRLGYISVVDTLKVVTEEVTTTTTITEKHKLNPETMT  
 EVLDVSDDEEGDDTMTGDGGEYLRPEDLKELGDDSLPSSQFLDGMNYLRYSLGEGRSDSLRSFSSDRSHTL  
 SHASYLRDSAVMDDSVVIPS HQVSTLAKAERNYSYRLSWGTEENLDNVALSSSPIHSGFLVSMVDARGGA  
 MRGCRHNLRIIIPPRKCTAPTRVTCRLVKRHLATMPPMVEGEGLASRLIEVGPSSGAQFLGKHLPTAP  
 PPLNEGESLSVRIQLGPPGKFLGPVIVEIPHF AALRGKERELVVLRENGDSWKEHFCDYTEDELNEI  
 LMGMDVLDSPEDLEKKRICRIITRDFPQYFAVVSRIKQDSNLIGPEGGVLSSTVVPVQVAVFPEGALTK  
 RIRVGLQAQPMHSELVKKILGNKATFSPIVTLEPRRRKFHKPITMTIPVPKASSDVMLNGFGDAPTLRL  
 LCSITGGTTPAQWEDITGTTPLTFVNECVSFTTNVSARFWLIDCRQIQESVTFASQVYREIICVPYMAKF  
 VVFAKSHDPIEARLRCFCMTDDKVDKLEQQENFAEVARSRDVEVLEKPIYVDCFGNLVPLTKSQHHI  
 F5FFAFKENRLPLFVKVRDTTQEPCGRLSFMKEPKSTRGLVHQATCNLNIITLPIYTKESSESDQEQEEEID  
 MTSEKNPQDEQERIEERLAYIADHLGFSWTELAARELDFTEEQIHQIRIENPNSLQDQSHALLKYWLERDG  
 KHATDTNLVECLTKINRMDIVHLMETNTEPLQERISHSYAIEQITLDHSEGF SVLQEELCTAQHKQKE  
 EQAVSKESETCDHPPIVSEEDISVGYSTFQDGVPKTEGDSATALFPQTHKEQVQQDFSGKMQLPEESS  
 LEYQQEYFVTTPTGTETSETQKAMIVPSSPSKTPEEVSTPAEEELYLQPTSSERGGSPIIQEPEEPSEH  
 REESSPRKTSLVIVESADNPETCERLDEDAAFEKGGDDMPEIPPETVTEEEYIDEHGHTVVKVTRKIIIR  
 RYVSSEGTEKEEIMVQGMPEP VNIIEEGDGYSKVIKRVVLKSDTEQSEDNNE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

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

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Labeling Method:** Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

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

**Storage:** Store at -80°C. Avoid repeated freeze-thaw cycles.

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

**RefSeq:** [NP\\_066187](#)

**RefSeq Size:** 7911

**RefSeq ORF:** 5616

**Synonyms:** ANK-2; brank-2; CFAP87; FAP87; LQT4

**Locus ID:** 287

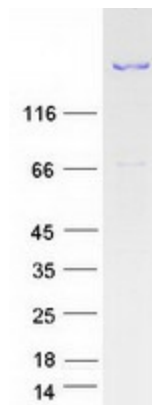
UniProt ID: [Q01484](#)

Cytogenetics: 4q25-q26

**Summary:** 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. [provided by RefSeq, Dec 2011]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified ANK2 protein (Cat# [TP314181]). The protein was produced from HEK293T cells transfected with ANK2 cDNA clone (Cat# [RC214181]) using MegaTran 2.0 (Cat# [TT210002]).