

## Product datasheet for **TP314181L**

### Ankyrin brain (ANK2) (NM\_020977) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ankyrin 2, neuronal (ANK2), transcript variant 2, 1 mg
Species:	Human
Expression Host:	HEK293T



[View online »](#)

Expression cDNA Clone >RC214181 representing NM\_020977  
 or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

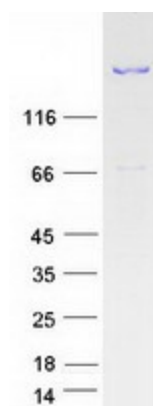
MMNEDAAQKSDSGEKFNQSSQRRKRPKSDSNASFLRAARAGNLDKWEYLKGGIDINTCNQNGLNALHL  
 AAKEGHVGLVQELLGRGSSVDSATKKGNTALHIASLAGQAEVVKVLVEGANINAQSQNGFTPLYMAAQE  
 NHIDVWKYLLENGANQSTATEDGFTPLAVALQQGHNQAVAILLENDTKGKVRPLALHIAARKDDTKSAAL  
 LLQNDHNADVQSKMMVNRTTESGFTPLHIAAHYGNVNVATLLLNRAAVDFTARNGITPLHVASKRGNTN  
 MVKLLLDGRGGQIDAKTRDGLTPLHCAARSGHDQVVELLERGAPELLARTKNGLSPLHMAAQGDHVECVKH  
 LLQHKAPVDDVTLDYLTALHVAHCHGHYRVTKLLLDKRAPNARALNGFTPLHIACKNRIKVMELLVKY  
 GASIQAITESGLTPIHVAAFMGHLNIVLLLLQNGASPDVTNIRGETALHMAARAGQVEVRCLLRNGALV  
 DARAREEQTPLHIASRLGKTEIVQLLLQHMAHPDAATTNGYTPLHISAREGQVDVASVLEAGAAHSLAT  
 KKGFTPLHVAAKYGSGLDVAKLLQRRAAADSAGKNGLTPLHVAHYDNQKVALLLLEKGGASPHATAKNGY  
 TPLHIAAKKNQMQUIASTLLNYGAETNIVTKQGVTPHLASQEGHTDMVTLKLDKGANIHMSTKSGTSLH  
 LAAQEDKVNVDILTCKHGADQDAHTKLGYTPLIVACHYGNVKNMNFLLKQGANVNAKTKNGYTPLHQAAQ  
 QGHTHIINVLLQHGAKPNATTANGNTALAIKRLGYISVVDTLKVVTEEVTTTTTITEKHKLNPETMT  
 EVLDVSDDEEGDDTMTGDGGEYLRPEDLKELGDDSLPSSQFLDGMNYLRYLSEGGRSDSLRSFSSDRSHTL  
 SHASYLRDSAVMDDSVIPSHQVSTLAKEAERNYSYRLSWGTELDNVALSSSPIHSGFLVFSFMDVARGGA  
 MRGCRHNGLRIIPRCKTAPTRVTCRLVKRHRLATMPPMVEGEGLASRLIEVGPSGAQFLGKLHLPTAP  
 PPLNEGESLVSRLQLGPPGKFLGPVIVEIPHFAALRGKERELVLRSENGDSWKEHFCDYTEDELNEI  
 LNGMDEVLDSPEDLEKKRICRIITRDFPQYFAVVSRIKQDSNLIGPEGGVLSSVTPVQVAVFPEGALTK  
 RIRVGLQAQPMHSELVKKILGNKATFSPIVTLEPRRRKFHKPITMTIPVPKASDVMLNGFGGDAPTLLR  
 LCSITGGTTPAQWEDITGTTPLTFVNECVSFTTNVSARFWLIDCRQIQESVTFASQVYREIICVPYMAKF  
 VVFAKSHDPIEARLRCFCMTDDKVDKLEQQENFAEVARSRDVEVLEGGKPIYVDCFGNLVPLTKSGQHII  
 FFFAFKENRPLFVKVRDTTQEPGRLSFMKEPKSTRGLVHQAIACNLNITLPIYTKESSEDQEQQEIID  
 MTSEKNPQDEQERIEERLAYIADHLGFSWTELARELDFTEEQIHQIRIENPNLQDQSHALLKYWLERDG  
 KHATDTNLVECLTKINRMDIVHLMETNTEPLQERISHSYAEIEQTITLDHSEGFVSLQEELCTAQHKQKE  
 EQAVSKESETCDHPPIVSEEDISVGYSTFQDGVPKTEGDSSATALFPQTHKEQVQDFSGKMQDLPEESS  
 LEYQQEYFVTTPGTETSETQKAMIVPSSPKTPEEVSTPAEEEEKLYLQPTSSERGGSPHIIQEPEEPSEH  
 REESSPRKTSLVIVESADNQPETCERLDEDAAFEKGGDDMPEIPPETVTEEEYIDEHGHTVWKKVTRKIIIR  
 RYVSSEGTEKEEIMVQGMPEPVNIEEGDGYSKVIKRVWLKSDTEQSEDNNE

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

- Tag:** C-Myc/DDK
- Predicted MW:** 205.6 kDa
- Concentration:** >0.05 µg/µL as determined by microplate BCA method
- Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining
- Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
- Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
- Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_066187</a>
<b>Locus ID:</b>	287
<b>UniProt ID:</b>	<a href="#">Q01484</a>
<b>RefSeq Size:</b>	7911
<b>Cytogenetics:</b>	4q25-q26
<b>RefSeq ORF:</b>	5616
<b>Synonyms:</b>	ANK-2; brank-2; CFAP87; FAP87; LQT4
<b>Summary:</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. [provided by RefSeq, Dec 2011]
<b>Protein Families:</b>	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]).