

For Research Use Only

# ANK2 Recombinant antibody

Catalog Number: 83912-5-RR



## Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
83912-5-RR	NM_001148	Protein A purification
Concentration:	GeneID (NCBI):	CloneNo.:
1000 ug/ml	287	240982G5
Source:	UNIPROT ID:	Recommended Dilutions:
Rabbit	Q01484	IHC 1:200-1:800
Isotype:	Full Name:	IF-P 1:50-1:500
IgG	ankyrin 2, neuronal	
Immunogen Catalog Number:	Calculated MW:	
AG34642	434 kDa	
	Observed MW:	
	250-260 kDa	

## Applications

Tested Applications:	Positive Controls:
IHC, IF-P, FC (Intra), ELISA	IHC : mouse cerebellum tissue,
Species Specificity:	IF-P : mouse heart tissue,
human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

The Ankyrins, belonging to the adapter protein family, consist of Ankyrin-R (ANK1), Ankyrin-B (ANK2), and Ankyrin-G (ANK3). Initially, ANK2 was considered as a key cytoskeletal-associated protein in the brain. Besides, it was discovered as a pivotal adaptor and scaffolding protein in the heart. Remarkably, recent studies have demonstrated that Ankyrins contribute to the modulation of various biological activities in cancers. (PMID: 36539782)

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

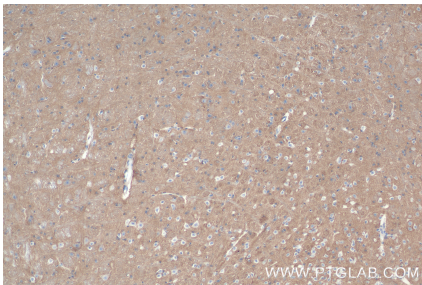
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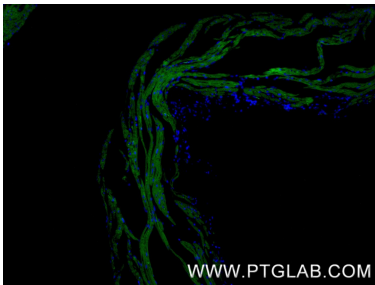
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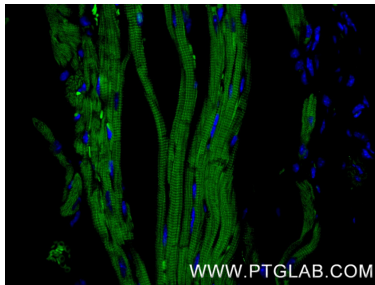
Selected Validation Data



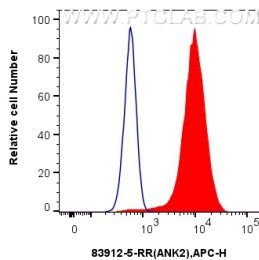
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 83912-5-RR (ANK2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



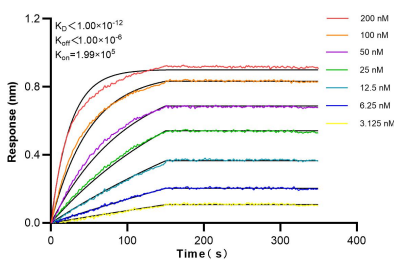
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using ANK2 antibody (83912-5-RR, Clone: 240982G5) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using ANK2 antibody (83912-5-RR, Clone: 240982G5) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.25 ug Ank2 Recombinant Antibody (83912-5-RR, Clone:240982G5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83912-5-RR against Human ANK2 were performed. The affinity constant is below 1 pM.