

## ARG11110 anti-ANK3 / Ankyrin G antibody

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Chicken Polyclonal antibody recognizes ANK3 / Ankyrin G
Tested Reactivity	Hu, Ms, Rat, Cow, Mk
Tested Application	ICC/IF, WB
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Target Name	ANK3 / Ankyrin G
Species	Human
Immunogen	The C-terminal 398 amino acids of Human ANK3 / Ankyrin G.
Conjugation	Un-conjugated
Alternate Names	Ankyrin-3; Ankyrin-G; MRT37; ANKYRIN-G; ANK-3

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:500 - 1:1000
	WB	1:5000 - 1:10000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

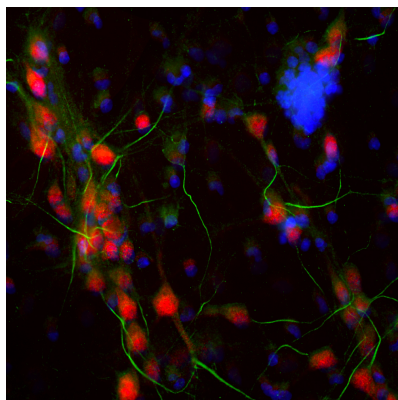
### Properties

Form	Liquid
Purification	Purified
Buffer	PBS, 5 mM Sodium azide and 50% Glycerol.
Preservative	5 mM Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

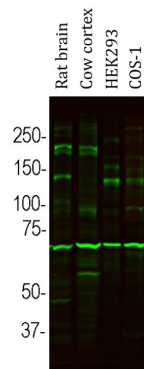
Gene Symbol	ANK3
Gene Full Name	ankyrin 3, node of Ranvier (ankyrin G)
Background	<p>Ankyrins are a family of proteins that are believed to link the integral membrane proteins to the underlying spectrin-actin cytoskeleton and play key roles in activities such as cell motility, activation, proliferation, contact, and the maintenance of specialized membrane domains. Multiple isoforms of ankyrin with different affinities for various target proteins are expressed in a tissue-specific, developmentally regulated manner. 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. Ankyrin 3 is an immunologically distinct gene product from ankyrins 1 and 2, and was originally found at the axonal initial segment and nodes of Ranvier of neurons in the central and peripheral nervous systems. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]</p>
Function	<p>In skeletal muscle, required for costamere localization of DMD and betaDAG1 (By similarity). Membrane-cytoskeleton linker. May participate in the maintenance/targeting of ion channels and cell adhesion molecules at the nodes of Ranvier and axonal initial segments. Regulates KCNA1 channel activity in function of dietary Mg(2+) levels, and thereby contributes to the regulation of renal Mg(2+) reabsorption (PubMed:23903368).</p> <p>[Isoform 5]: May be part of a Golgi-specific membrane cytoskeleton in association with beta-spectrin. [UniProt]</p>
Calculated Mw	480 kDa
Cellular Localization	Cytoplasm, cytoskeleton. Cell projection, axon. Cell membrane, sarcolemma. Cell junction, synapse, postsynaptic cell membrane. Lysosome. Note=In skeletal muscle, localized at costameres and neuromuscular junctions. In macrophages, associated with lysosomes. Isoform 5: Cytoplasm, cytoskeleton. Golgi apparatus. [UniProt]

## Images



ARG11110 anti-ANK3 / Ankyrin G antibody ICC/IF image

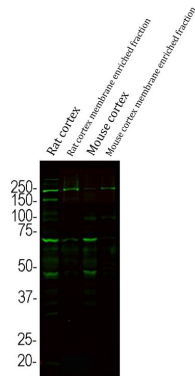
Immunofluorescence: E20 rat cortical neuron-glial cell culture stained with ARG11110 anti-ANK3 / Ankyrin G antibody (green) at 1:2000 dilution, and co-stained with [ARG52283](#) anti-FOX3 / NeuN antibody [1B7] (red) at 1:2000 dilution. Hoechst (blue) for nuclear staining.



#### ARG11110 anti-ANK3 / Ankyrin G antibody WB image

Western blot: Rat brain, Cow cortex, HEK293 and COS-1 cell lysates stained with ARG11110 anti-ANK3 / Ankyrin G antibody at 1:3000 dilution.

Bands at 60-190 kDa represent Ankyrin G splice variants and proteolytic fragments. Larger Ankyrin G isoforms of 270 kDa and 480 kDa can be seen on longer exposure of the blots.



#### ARG11110 anti-ANK3 / Ankyrin G antibody WB image

Western blot: Rat cortex, Rat cortex membrane enriched fraction, Mouse cortex and Mouse cortex membrane enriched fraction stained with ARG11110 anti-ANK3 / Ankyrin G antibody at 1:3000 dilution.