

Ankyrin G

Cat.No. 386 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 up to 1 : 5000 (AP staining) IP: not tested yet ICC: 1 : 500 up to 1 : 1000 IHC: 1 : 500 IHC-P/FFPE: 1 : 500
Immunogen	Recombinant protein corresponding to AA 1784 to 1961 from mouse AnkyrinG (UniProt Id: G5E8K5-1)
Reactivity	Reacts with: rat (O70511-1), mouse (G5E8K5-1). Other species not tested yet.
Specificity	Specific for Ankyrin G; detects all described splice variants.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Ankyrin G is a membrane-cytoskeleton linker. It may participate in the targeting and clustering of ion channels and cell adhesion molecules at the nodes of Ranvier and axonal initial segments (AIS).

Selected General References

Structural basis for the membrane association of ankyrinG via palmitoylation.
Fujiwara Y, Kondo HX, Shirota M, Kobayashi M, Takeshita K, Nakagawa A, Okamura Y, Kinoshita K
Scientific reports (2016) 6: 23981.

betaIV spectrin is recruited to axon initial segments and nodes of Ranvier by ankyrinG.
Yang Y, Ogawa Y, Hedstrom KL, Rasband MN
The Journal of cell biology (2007) 176(4): 509-19.

AnkyrinG is required for clustering of voltage-gated Na channels at axon initial segments and for normal action potential firing.
Zhou D, Lambert S, Malen PL, Carpenter S, Boland LM, Bennett V
The Journal of cell biology (1998) 143(5): 1295-304.

beta-Spectrin is colocalized with both voltage-gated sodium channels and ankyrinG at the adult rat neuromuscular junction.
Wood SJ, Slater CR
The Journal of cell biology (1998) 140(3): 675-84.

AnkyrinG. A new ankyrin gene with neural-specific isoforms localized at the axonal initial segment and node of Ranvier.
Kordeli E, Lambert S, Bennett V
The Journal of biological chemistry (1995) 270(5): 2352-9.