



## Ankyrin 3/Ankyrin G

## Data Sheet

**Catalog Number:** CH22125

**Host:** Chicken

**Product Type:** Chicken Polyclonal

**Species Reactivity:** Human, Rat, Mouse, Cow, and Monkey

**Immunogen Sequence:** The C-terminal 398 amino acids of human ankyrin 3 expressed in and purified from *E. coli*

**Format:** Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM Na<sub>3</sub>N

**Entrez:** 288

**UniProt:** Q21955

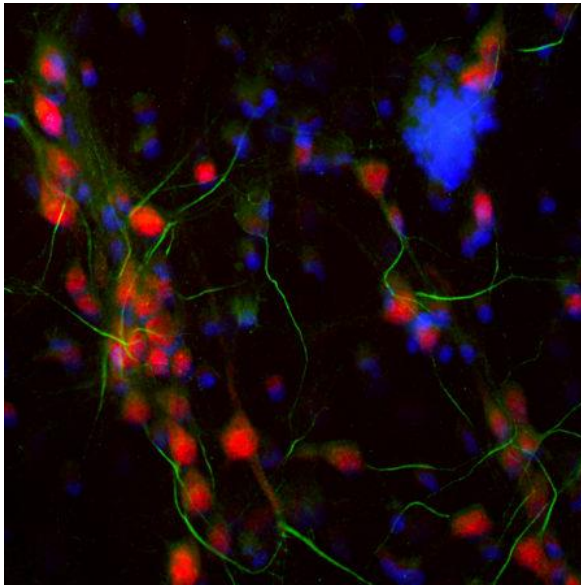
**Applications:** Immunofluorescence: 1:500-1,000  
Immunohistochemistry: 1:500-1,000  
Western Blot: 1:5,000-10,000

**Storage:** Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

### Application Notes

#### Description/Data

Ankyrin 3, also known as Ankyrin G, is larger than the related Ankyrin 1 and Ankyrin 2. Ankyrin 3 is expressed in the axon initial segment and the nodes of Ranvier in the nervous system. Antibodies against Ankyrin 3 thus can be useful in identifying the regions of axon initial segments and nodes of Ranvier. This antibody was made against the C-terminal 398



amino acid of human isotype 1, and works well on human and rat ankyrin 3 on western blots and section material. This segment is expressed by all ankyrin 3 three isotypes and contains the DEATH domain sequence.

*Image: Immunofluorescent analysis of cortical neuron-glia cell culture from E20 rat stained with chicken pAb to ankyrin 3, CH22125, dilution 1:2,000 in green, and costained with mouse mAb to FOX3/NeuN dilution 1:2,000 in red. The blue is Hoechst staining of nuclear DNA. The CH22125 antibody stains the axonal initial segments, while the FOX3/NeuN antibody reveals perikarya and nuclei of neurons.*

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