

**Ankyrin G Antibody**  
**Ankyrin G Antibody, Clone S106-20**  
**Catalog # ASM10238**

**Specification**

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**Ankyrin G Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O12955</a>
Other Accession	<a href="#">NP_066267.2</a>
Host	<b>Mouse</b>
Isotype	<b>IgG1</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Monoclonal</b>

**Description**

Mouse Anti-Human Ankyrin G Monoclonal IgG1

**Target/Specificity**

Detects >~200kDa.

**Other Names**

ANK-3 Antibody, ANK3 Antibody, ankyrin 3 Antibody, Ankyrin G119 Antibody, brain specific ankyrin G Antibody, CHANK3 Antibody, ankyrin 3 (G) Antibody, Ankyrin-3 Antibody, Ankyrin-G Antibody, node of Ranvier (ankyrin G) Antibody, Ankyrin 3 Antibody, node of Ranvier Antibody, Ankyrin G119 Antibody, FLJ45464 Antibody, OTTHUMP00000217458 Antibody, OTTHUMP00000217575 Antibody, RP11 369L1.1 Antibody

**Immunogen**

Fusion protein 1000 C-terminal amino acids of human Ankyrin G encompassing all of Ankyrin G with the exception of Ankyrin repeats

**Purification**

Protein G Purified

Storage **-20°C**

**Storage Buffer**

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature **Blue Ice or 4°C**

**Certificate of Analysis**

1 µg/ml of SMC-404 was sufficient for detection of Ankyrin-G in 20 µg of rat brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

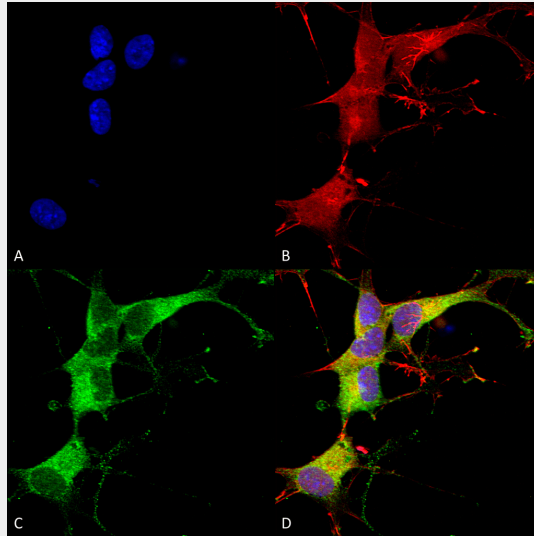
Cytoplasm | Cytoskeleton | Cell Projection | Axon | Cell Membrane | Sarcolemma | Cell Junction | Synapse | Postsynaptic Cell Membrane | Lysosome

**Ankyrin G Antibody - Protocols**

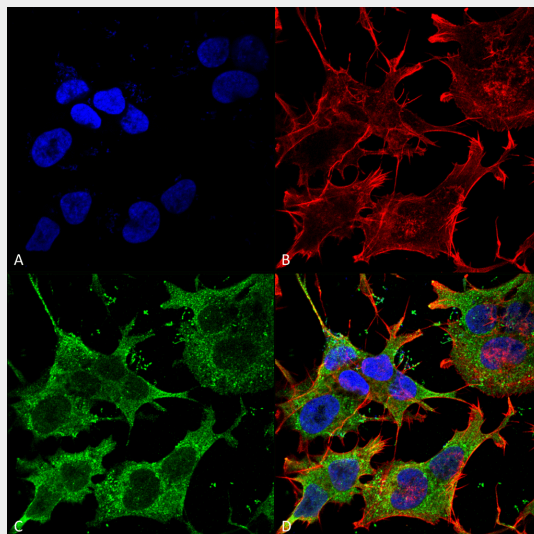
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Ankyrin G Antibody - Images

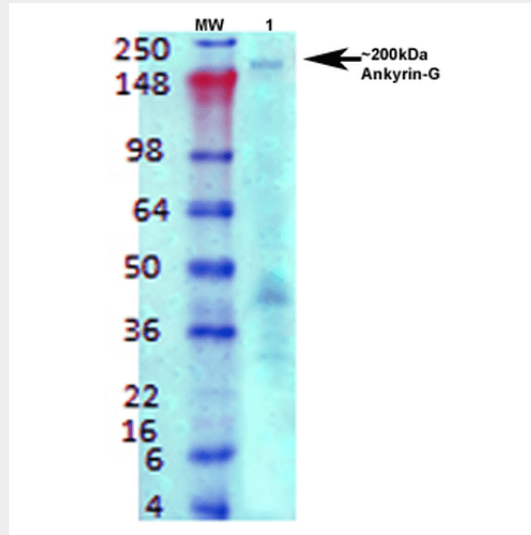


Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Ankyrin G Monoclonal Antibody, Clone N106/20 (ASM10238). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-Ankyrin G Monoclonal Antibody (ASM10238) at 1:100 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Ankyrin G Antibody (D) Composite.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Ankyrin G Monoclonal Antibody, Clone N106/20 (ASM10238). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human.

Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Ankyrin G Monoclonal Antibody (ASM10238) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cytoplasm . Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Ankyrin G Antibody. (D) Composite.



Western Blot analysis of Rat brain membrane lysate showing detection of Ankyrin G protein using Mouse Anti-Ankyrin G Monoclonal Antibody, Clone N106/20 (ASM10238). Primary Antibody: Mouse Anti-Ankyrin G Monoclonal Antibody (ASM10238) at 1:1000.

### **Ankyrin G Antibody - Background**

Ankyrins are a family of adaptor proteins that mediate the attachment of integral membrane proteins to the spectrin-actin based membrane skeleton (1). Ankyrins have binding sites for the beta subunit of spectrin and at least 12 families of integral membrane proteins. This linkage is required to maintain the integrity of the plasma membranes and to anchor specific ion channels, ion exchangers and ion transporters in the plasma membrane.

### **Ankyrin G Antibody - References**

1. Bennett V., Baines A.J. (2001) *Physiol. Rev.* 81 (3): 1353-92.