

Datasheet for ABIN2482470

anti-Ankyrin G antibody (C-Term) (HRP)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Ankyrin G (ANK3)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Ankyrin G antibody is conjugated to HRP
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Fusion protein 1000 C-terminal amino acids of human Ankyrin G (also known as ANK-3 or ankyrin-3) encompassing all of Ankyrin G with the exception of Ankyrin repeats
Clone:	S106-20
Isotype:	IgG1
Specificity:	Detects >~200 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	Ankyrin G (ANK3)
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Target Details

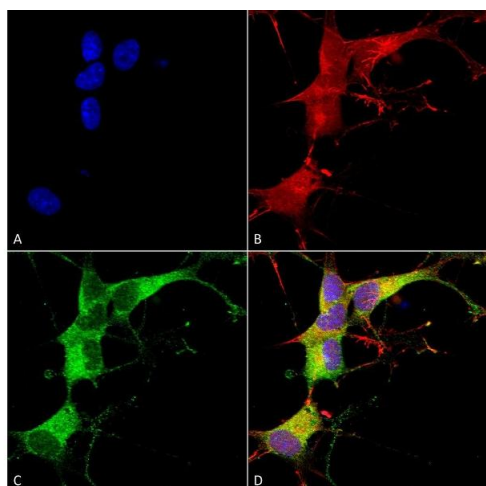
Alternative Name:	Ankyrin G (ANK3 Products)
Background:	Ankyrins are a family of adaptor proteins that mediate the attachment of integral membrane proteins to the spectrin-actin based membrane skeleton (1). Ankyrins have binding sites for the beta subunit of spectrin and at least 12 families of integral 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.
Gene ID:	288
NCBI Accession:	NP_066267
UniProt:	Q12955
Pathways:	Synaptic Membrane , Maintenance of Protein Location , Skeletal Muscle Fiber Development

Application Details

Application Notes:	<ul style="list-style-type: none">• WB (1:1000)• ICC/IF (1:100)• optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2482470 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.
Restrictions:	For Research Use only

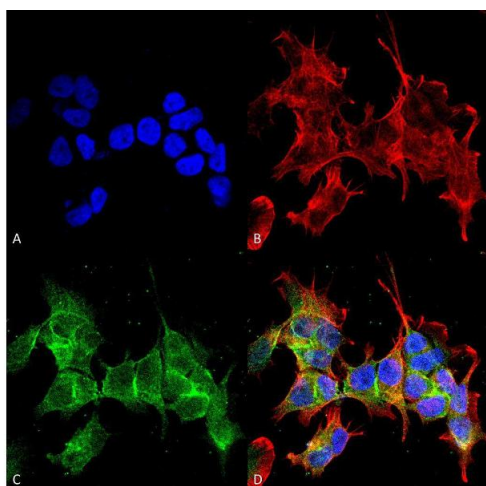
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



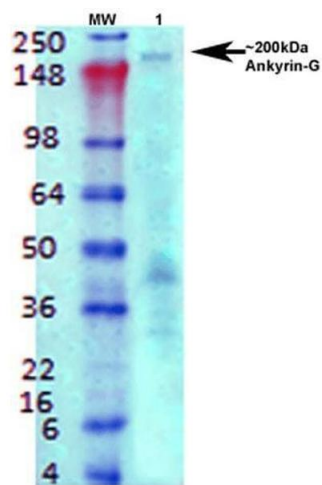
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Ankyrin G Monoclonal Antibody, Clone S106-20 (ABIN2482470). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Ankyrin G Monoclonal Antibody (ABIN2482470) 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, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Ankyrin G Antibody (D) Composite.



Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Ankyrin G Monoclonal Antibody, Clone S106-20. 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 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 Blotting

Image 3. Western Blot analysis of Rat brain membrane lysate showing detection of Ankyrin G protein using Mouse Anti-Ankyrin G Monoclonal Antibody, Clone S106-20 .
Primary Antibody: Mouse Anti-Ankyrin G Monoclonal Antibody at 1:1000.