Datasheet for ABIN1741270

anti-LGI1 antibody (AA 37-113) (Atto 390)

3 Images

Overview

Quantity:	100 µg
Target:	LGI1
Binding Specificity:	AA 37-113
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LGI1 antibody is conjugated to Atto 390
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

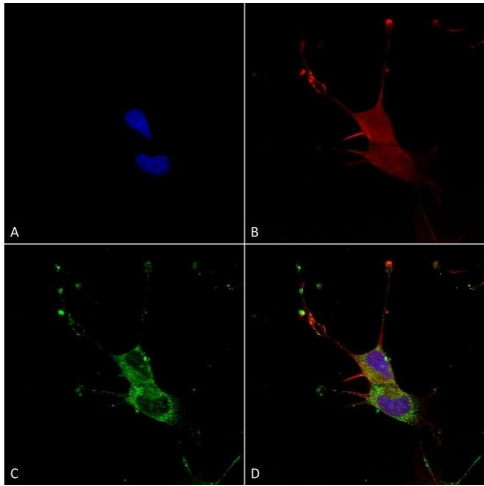|	
Immunogen:	Fusion protein amino acids 37-113 (LRRNT domain and first LRR repeat) of mouse LGI1. Rat: 100% identity (77/77 amino acids identical). Human: 98% identity (76/77 amino acids identical). ~50% identity with LGI2, LGI3 and LGI4.
Clone:	S283-7
Isotype:	IgG2a
Specificity:	Detects ~60 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	LGI1
Alternative Name:	LGI1 (LGI1 Products)
Background:	The leucine-rich, glioma inactivated gene 1 (LGI1) was first identified as a candidate tumor suppressor gene for glioma and may play a role in other cancers. LGI1 is a member of a family of highly related proteins containing leucine-rich repeats (LRRs) which are highly similar to other transmembrane signaling molecules and receptors. LGI1 serves as a ligand to ADAM22, a metalloprotease localized at the synapse. Mutations in LGI1 account for nearly half of autodominant lateral temporal epilepsy (ADTLE), an epileptic syndrome characterized by focal seizures with predominant auditory symptoms. Two isoforms of LGI1 are known to exist, this LGI1 antibody will recognize only the longer form.
Gene ID:	56839
NCBI Accession:	NP_064674
UniProt:	Q9JIA1

Application Details

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Application Notes:	• WB (1:1000) • optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN1741270 was sufficient for detection of LGI1 in 20 μg of rat brain lysate 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, 0.1 % 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

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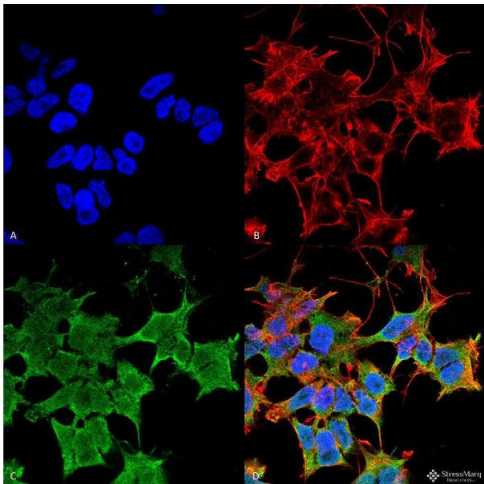
Images

Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-LGI1 Monoclonal Antibody, Clone S283-7 (ABIN1741270). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-LGI1 Monoclonal Antibody (ABIN1741270) 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) LGI1 Antibody (D) Composite.
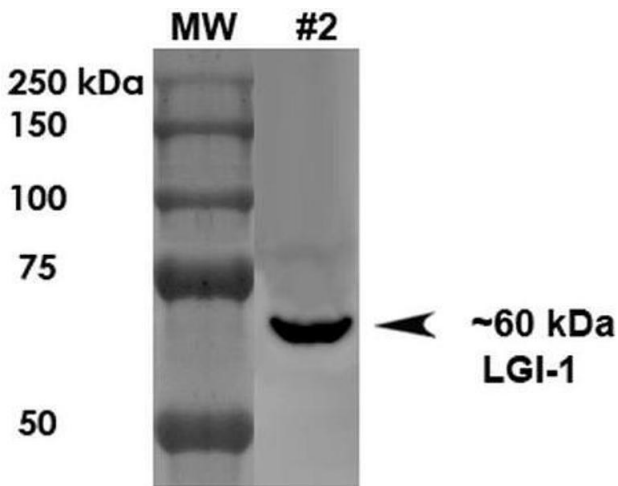
Western Blotting

Image 2. Western Blot analysis of Rat Brain Membrane showing detection of ~60 kDa LGI1 protein using Mouse Anti-LGI1 Monoclonal Antibody, Clone S283-7 . Load: 10 µg. Primary Antibody: Mouse Anti-LGI1 Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse HRP at 1:200 for 1 hour at RT. Predicted/Observed Size: ~60 kDa.

Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-LGI1 Monoclonal Antibody, Clone S283-7 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-LGI1 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cell Junction, Golgi Apparatus, Endoplasmic Reticulum.

Images

Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) LGI1 Antibody (D) Composite.