

Datasheet for ABIN2483309
anti-BCAN antibody (AA 219-655) (Atto 488)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	BCAN
Binding Specificity:	AA 219-655
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This BCAN antibody is conjugated to Atto 488
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Fusion protein amino acids 219-655 of rat Brevican
Clone:	S294A-6
Isotype:	IgG2b
Specificity:	Detects ~140 kDa (and smaller due to proteolytic cleavage).
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	BCAN
Alternative Name:	Brevican (BCAN Products)

Target Details

Background: Brevican is the most abundant chondroitin sulfate proteoglycan in the extracellular matrix of the adult brain. It is a member of the lectican family of aggregating extracellular matrix proteoglycans that bear chondroitin sulfate (CS) chains. It is highly expressed in the central nervous system and is thought to stabilize synapses and inhibit neural plasticity. Brevican is secreted from astrocytes and neurons as a 145 kD core protein that bears up to three, covalently-linked, CS chains. It is also secreted as a 145 kD core protein without CS chains. When cleaved by extracellular glutamyl endopeptidases, the ADAMTSs, a 55 kD N-terminal fragment is formed that contains the unique C terminal epitope EAMESE.

Gene ID: 25393

NCBI Accession: [NP_001028837](#)

UniProt: [P55068](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

Application Details

Application Notes:

- WB (1:1000)
- optimal dilutions for assays should be determined by the user.

Comment: 1 µg/ml of ABIN2483309 was sufficient for detection of Brevican 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

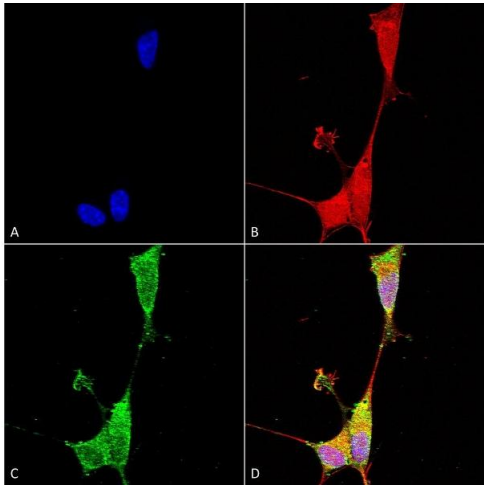
Buffer: PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

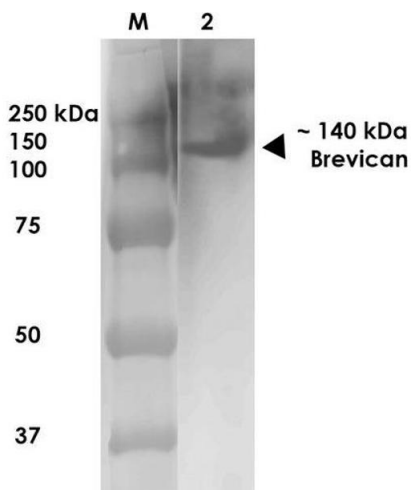
Storage: 4 °C

Storage Comment: Conjugated antibodies should be stored at 4°C



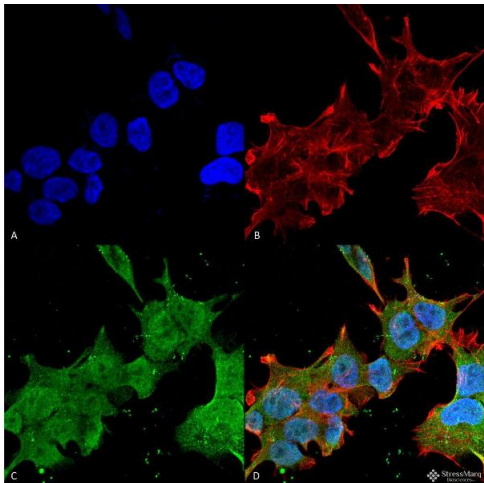
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Brevican Monoclonal Antibody, Clone S294A-6 (ABIN2483309). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Brevican Monoclonal Antibody (ABIN2483309) 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) Brevican Antibody (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Rat Brain Membrane showing detection of ~140 kDa Brevican protein using Mouse Anti-Brevican Monoclonal Antibody, Clone S294A-6 . Lane 1: MW Ladder. Lane 2: Rat Brain Membrane (10 µg). . Load: 10 µg. Block: 5% milk. Primary Antibody: Mouse Anti-Brevican Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:200 for 1 hour at RT. Color Development: TMB solution for 10 min at RT. Predicted/Observed Size: ~140 kDa.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Brevican Monoclonal Antibody, Clone S294A-6 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Brevican 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 Membrane, Nucleus. Magnification: 60X.
(A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Brevican Antibody (D) Composite.