

**Brevican Antibody**  
**Brevican Antibody, Clone S294A-6**  
**Catalog # ASM10262**

**Specification**

**Brevican Antibody - Product Information**

Application **ICC/IF, WB**  
Primary Accession [P55068](#)  
Other Accession [NP\\_001028837.1](#)  
Host **Mouse**  
Isotype **IgG2B**  
Reactivity **Mouse, Rat**  
Clonality **Monoclonal**  
**Description**  
Mouse Anti-Rat Brevican Monoclonal IgG2B

**Target/Specificity**

Detects ~140kDa (and smaller due to proteolytic cleavage).

**Other Names**

BCAN Antibody, BEHAB Antibody, CSPG7 Antibody, Brain enriched hyaluronan binding protein Antibody, Brevican core protein Antibody, Brevican core protein isoform 1 Antibody, Brevican core protein isoform 2 Antibody, Brevican proteoglycan Antibody, Chondroitin sulfate proteoglycan 7 Antibody, Chondroitin sulfate proteoglycan BEHAB Antibody, MGC13038 Antibody

**Immunogen**

Fusion protein amino acids 219-655 of rat Brevican

**Purification**

Protein G Purified

Storage **-20°C**

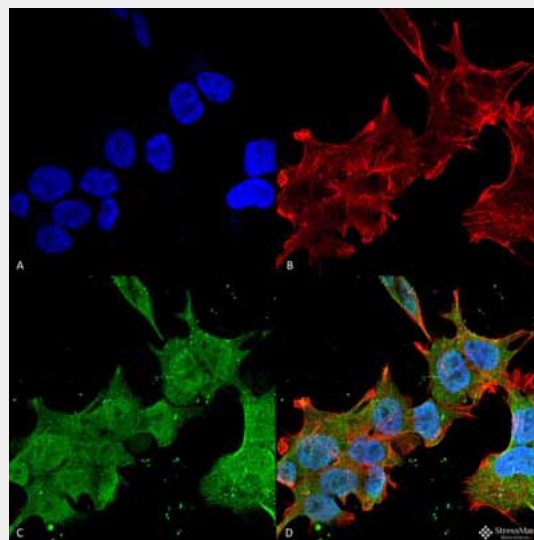
**Storage Buffer**

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

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

**Certificate of Analysis**

1 µg/ml of SMC-428 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.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Brevican Monoclonal Antibody, Clone S294A-6 (ASM10262). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Brevican Monoclonal Antibody (ASM10262) 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.

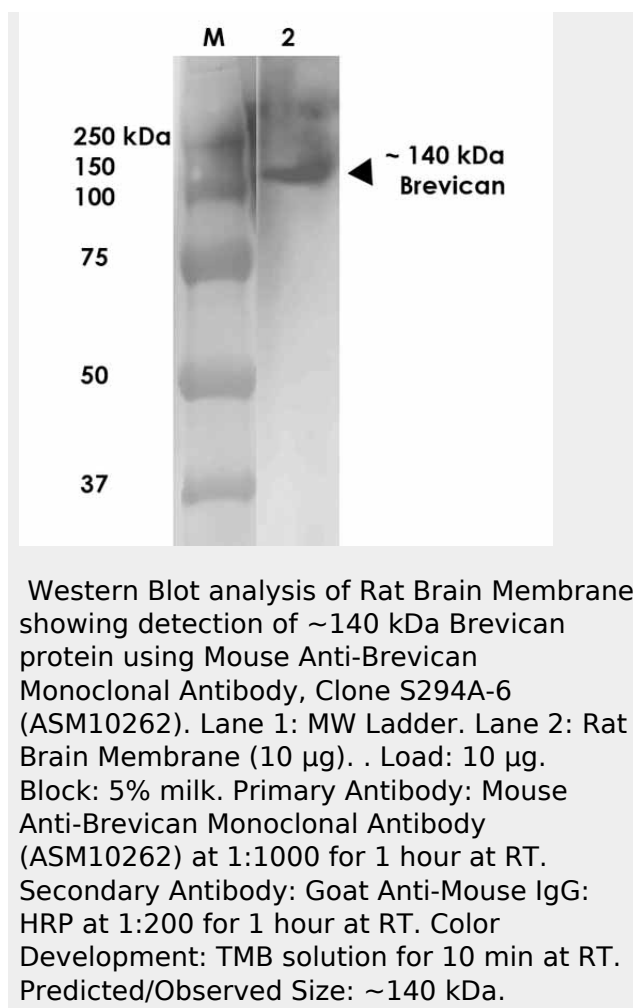
### Cellular Localization

Extracellular Space | Extracellular Matrix |  
Membrane | Lipid-Anchor | GPI-Anchor

### Brevican 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](#)



### Brevican Antibody - 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.

### Brevican Antibody - References

1. Yamada H., Watanabe K., Shimonaka M. and Yamaguchi Y. (1994) J. Biol. Chem. 269:

10119-10126.

2. Yamada H., Watanabe K., Shimonaka M., Yamasaki M. and Yamaguchi Y. (1995) Biochem. Biophys. Res. Commun. 216: 957-963.

3. Rauch U., et al. (1997) Genomics 44: 15-21.

4. Zhang H., Kelly G., Zerillo C., Jaworski D.M. and Hockfield S. (1998) J. Neurosci. 7: 2370-2376.

5. Aspberg A., Adam S., Kostka G., Timpl R. and Heinegard D. (1999) J. Biol. Chem. 274: 20444-20449.