

## Brevican Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 56541 (clone S294A-6)  
**Size:** 100ug in PBS, pH 7.4; 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

### 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 145kDa core protein that bears up to three covalently-linked CS chains. It is also secreted as a 145kDa core protein without CS chains. When cleaved by extracellular glutamyl endopeptidases, a 55kDa N-terminal fragment is formed that contains the unique C-terminal epitope EAMESE.

### SPECIFICATION SUMMARY

**Antigen:** Fusion protein corresponding to aa 219-655 of rat Brevican (accession no. P55068).

**Host Species:** Mouse

**Antibody Class:** IgG2b

### SPECIFICITY

This antibody recognizes mouse and rat Brevican.

### APPLICATIONS

*Immunoblotting:* use at 1-2ug/ml. A band of ~140kDa is detected. Smaller cleavage products are also detected.

*Positive control:* Rat brain lysate.

These are recommended concentrations. User should determine optimal concentrations for their application.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*