

## Technical Data Sheet

## Purified Mouse Anti-Brevican

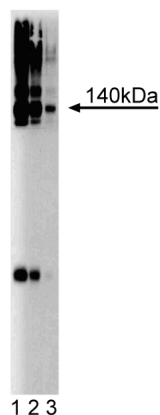
## Product Information

<b>Material Number:</b>	<b>610895</b>
<b>Size:</b>	150 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	2/Brevican
<b>Immunogen:</b>	Rat Brevican aa. 232-394
<b>Isotype:</b>	Mouse IgG1
<b>Reactivity:</b>	QC Testing: Rat Tested In Development: Mouse, Dog
<b>Target MW:</b>	140-145 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

## Description

Neural tissue expresses a variety of cell surface heparan sulfate and extracellular chondroitin sulfate containing proteoglycans. Brevican, a chondroitin sulfate proteoglycan, is a member of the lectican family. Other members of this family are aggrecan, versican, and neurocan. These proteins are either heparan sulfate or keratan sulfate containing glycosylphosphatidylinositol (GPI) anchored or membrane spanning proteoglycans, or soluble chondroitin sulfate containing proteoglycans. Brevican exists as either a soluble or GPI-anchored plasma membrane protein. Brevican contains the shortest core protein of any of the family members. In addition, it is characterized by chondroitin sulfate chains, an N-terminal hyaluronic acid-binding domain (HA), an epidermal growth factor-like (EGF) repeat, and lectin-like and complement regulatory protein-like domains in its C-terminal region. Primary cerebellar astrocytes are the major site for mRNA expression and little, if any, is found in neurons. Although there is an 80 kDa N-terminal truncated form, full length brevican can be up to 145 kDa. Brevican is thought to play a role in the terminal differentiation and regulation of the adult nervous system.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



**Western blot analysis of Brevican on a rat cerebrum lysate.** Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti- Brevican antibody.

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

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## Application Notes

### Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

### Recommended Assay Procedure:

**Western blot:** Please refer to [http://www.bdbiosciences.com/pharmingen/protocols/Western\\_Blotting.shtml](http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml)

### Suggested Companion Products

Catalog Number	Name	Size	Clone
611463	Rat Cerebrum Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)

### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

### References

Aspberg A, Miura R, Bourdoulous S. The C-type lectin domains of lecticans, a family of aggregating chondroitin sulfate proteoglycans, bind tenascin-R by protein-protein interactions independent of carbohydrate moiety.. *Proc Natl Acad Sci U S A*. 1997; 94:10116-10121.(Biology)

Seidenbecher CI, Richter K, Rauch U, Fassler R, Garner CC, Gundelfinger ED. Brevican, a chondroitin sulfate proteoglycan of rat brain, occurs as secreted and cell surface glycosylphosphatidylinositol-anchored isoforms.. *J Biol Chem*. 1995; 270:27206-27212.(Biology)

Yamada H, Watanabe K, Shimonaka M, Yamaguchi Y. Molecular cloning of brevican, a novel brain proteoglycan of the aggrecan/versican family.. *J Biol Chem*. 1994; 269:10119-10126.(Biology)