



Monoclonal Anti-human Brevican Antibody

ORDERING INFORMATION

Catalog Number: MAB40091

Clone: 450616

Lot Number: CBDD01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human Brevican

Immunogen: NS0-derived rhBrevican

Ig class: mouse IgG₁

Recommended Application:
Immunocytochemistry

Background

Brain-enriched hyaluronan-binding protein (Brevican) is a 160 kDa member of the aggrecan/versican proteoglycan family of matrix proteins. It is brain-derived and serves as a linker between HA and other matrix molecules such as tenascins and fibulins. Mature human Brevican contains an N-terminal V-type Ig-like domain (aa 52 - 139), a C-terminal EGF-like (aa 646 - 682) and C-type lectin domain (aa 695 - 802). Multiple isoforms exist where there is an alternate start site at Met228 and a 23 aa substitution for aa 649 - 911 that serves as a GPI-anchor motif. Over aa 23 - 911, human Brevican shares 82% aa identity with mouse Brevican.

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, NS0-derived, recombinant human Brevican (rhBrevican; aa 23 - 911; Accession # Q96GW7). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody detects human Brevican in direct ELISAs.

Application

Immunocytochemistry - This antibody was used at a concentration of 10 µg/mL to detect Brevican in differentiated rat cortical neural stem cells. Cells were fixed with PBS containing 4% paraformaldehyde for 20 minutes at room temperature and blocked with PBS containing 10% normal donkey serum, 0.1% Triton® X-100, and 1% BSA for 45 minutes at room temperature. After blocking, cells were incubated with diluted primary antibody overnight at 4° C followed by fluorochrome-coupled anti-mouse IgG at room temperature in the dark for one hour. Between each step, cells were washed with PBS containing 0.1% BSA.

Optimal dilutions should be determined by each laboratory for each application.

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