



Monoclonal Anti-human IGSF4C Antibody

ORDERING INFORMATION

Catalog Number: MAB41641

Clone: 404617

Lot Number: CAJX01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human IGSF4C

Immunogen: NS0-derived rhIGSF4C

Ig class: rat IgG₁

Recommended Application:
Immunohistochemistry

Other Application:
Direct ELISA

Background

Immunoglobulin Superfamily, member 4C (IGSF4C), also known as Nectin-like protein 4 (Nectl-4), SynCAM4, or TSL-2, is a type I transmembrane glycoprotein adhesion molecule. Expression at 55 kDa in epithelia of kidney, bladder and prostate, 52 kDa in brain, and 50 or 48 kDa in the testes may be due to variable glycosylation. IGSF4C participates in Ca²⁺-independent, mainly homophilic cell-cell adhesion activity and is a proposed tumor suppressor. Human IGSF4C contains a 306 aa extracellular region with one V-type and two C2-type Ig-like domains. Human IGSF4C shares 98 - 99% amino acid identity with mouse, rat, dog and cow IGSF4C.

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified, NS0-derived, recombinant human IGSF4C (rhIGSF4C; aa 25 - 323; Accession # Q8NFZ8). 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 rhIGSF4C in direct ELISAs. In this format, this antibody shows no cross-reactivity with rhIGSF4A, rhIGSF3, rhIGSF4B, rhIGSF4D, or rhIGSF8.

Applications

Immunohistochemistry - This antibody was used at a concentration of 15 µg/mL with appropriate secondary reagents to detect IGSF4C in paraffin-embedded normal human kidney tissue sections. For chromogenic detection of labeling, the use of R&D Systems Cell and Tissue Staining Kits (CTS Series) is recommended.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human IGSF4C. The detection limit for rhIGSF4C is approximately 3 ng/well.

For immunohistochemistry images, please refer to our website at <http://www.RnDSystems.com/go/ihc>.

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