

Mouse Monoclonal Antibody to Human Von Willebrand Factor C Domain Containing 2

Cat. No. CAB11626MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Mouse Monoclonal Antibody to Human Von Willebrand Factor C Domain Containing 2

Species Human

Source Mouse

Antigen Description

Brorin, also known as brain-specific chordin-like protein, von Willebrand factor C domain-containing protein 2 and VWC2, is a secreted protein which contains two VWFC domains. VWC2 / Brorin is a BMP antagonist which may play a role in neural development. It promotes cell adhesion. VWC2 / Brorin is a unique member of the chordin family. It inhibited the activity of bone morphogenetic protein 2 (BMP2) and BMP6 in mouse preosteoblastic MC3T3-E1 cells. Mouse Brorin was predominantly expressed in neural tissues in embryos and also predominantly expressed in the adult brain. In the brain, the expression was detected in neurons, but not glial cells. The neural tissue-specific expression profile of Brorin is quite distinct from that of any other member of the Chordin family. VWC2 / Brorin protein promoted neurogenesis, but not astrogenesis, in mouse neural precursor cells. VWC2 / Brorin is a novel secreted BMP antagonist that potentially plays roles in neural development and functions.

Specificity Human VWC2. No cross-reactivity with human cell lysate (293 cell line) in ELISA.

Immunogen Recombinant Human VWC2 Protein

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Isotype	Mouse IgG2a
Clone	4I3B2
Applications	ELISA
Dilution	This antibody can be used at 0.5-1 µg with the appropriate secondary reagents to detect Human VWC2. The detection limit for Human VWC2 is approximately 0.078 ng/well.
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, human cell-derived, recombinant Human VWC2. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	VWC2 von Willebrand factor C domain containing 2 [Homo sapiens]
Official Symbol	VWC2
Synonyms	VWC2; von Willebrand factor C domain containing 2; brorin; brain specific chordin like; PSST739; UNQ739; brain-specific chordin-like protein; von Willebrand factor C

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domain-containing protein 2; MGC131845;

Gene ID

375567

mRNA Refseq

NM_198570

Protein Refseq

NP_940972

MIM

611108

UniProt ID



Q2TAL6

**Chromosome
Location**

7p12.3-p12.2

Function

molecular_function;

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