

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

Cat. No. CAB11625MH **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	11B6C5
Applications	Western blot
Dilution	This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human VWC2 in WB. Using a DAB detection system, the detection limit for Human VWC2 is approximately 4 ng/lane under non-reducing conditions and 50 ng/lane under reducing conditions.
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

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	like; PSST739; UNQ739; brain-specific chordin-like protein; von Willebrand factor C 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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