

## Human Brorin/VWC2 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 615609

Catalog Number: FAB6147V

100 µg

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Brorin/VWC2 in direct ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant mouse Brorin/VWC2 and no cross-reactivity with recombinant human (rh) vWF-A2 is observed.
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 615609
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Brorin/VWC2 Ser28-Met325 Accession # Q2TAL6
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

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Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.				
Stability & Storage	e Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied				

## **BACKGROUND**

Brorin (brain-specific chordin-like protein), also called VWC2, is an ~46 kDa glycoprotein that is a member of the Chordin family of secreted BMP regulators (1-3). The human Brorin cDNA encodes 325 amino acids (aa) including a 27 aa signal sequence and a 298 aa secreted mature protein with two VWFC (von Willebrand factor C) domains. These domains contain a pattern of 10 cysteine residues that is conserved in other family members, with the remaining aa sequence sharing little identity (1). Human Brorin shares 90%, 91% and 95% aa sequence identity with mouse, rat and equine Brorin, respectively. It also shares aa identity with VWC2L (Brorin-like) of 37% overall and 62% within the VWFC domains (4). Brorin is predominantly expressed in embryonic and adult neural tissues in the mouse (1). Expression of Brorin mRNA is concentrated in neurons within the diencephalon and medulla oblongata, but is not detected in the developing cerebral cortex (1). Brorin binds and antagonizes BMPs, interacting via the VWFC domains (1-3). It promotes neurogenesis in mouse neural precursors (1). Knockdown of Brorin in zebrafish embryos results in morphological abnormalities in the brain and eye (1, 4).

## PRODUCT SPECIFIC NOTICES

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