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EFHD2 Antibody

Catalog # ASC11090

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q96C19
Other Accession	NP_077305, 20149675
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	26697
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	EFHD2 antibody can be used for detection of EFHD2 by Western blot at 1 - 2 g/mL. Antibody can also be used for immunohistochemistry starting at 5 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	79180
Other Names	EF-hand domain-containing protein D2, Swiprosin-1, EFHD2, SWS1
Target/Specificity	EFHD2;
Reconstitution & Storage	EFHD2 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	EFHD2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EFHD2
Synonyms	SWS1
Function	May regulate B-cell receptor (BCR)-induced immature and primary B-cell apoptosis. Plays a role as negative regulator of the canonical NF-kappa-B-activating branch. Controls spontaneous apoptosis through the regulation of BCL2L1 abundance.
Cellular Location	Membrane raft. Note=In a mouse immature B-cell line WEHI-231.
Tissue Location	Found in lymphocytes; preferentially expressed in CD8+ cells.

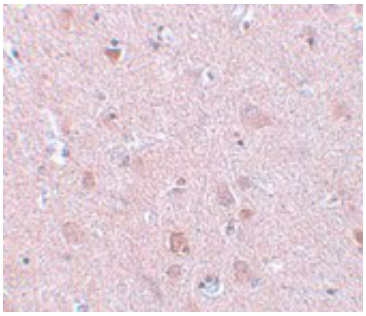
Background

EFHD2 Antibody: EFHD2, also known as Swiprosin-1 or SWS1, is an EF-hand and coiled-coil-containing adaptor protein that plays a role in lymphocyte physiology. EFHD2 exhibits the highest expression in CD8+ T cells and immature B cells. It provides a membrane scaffold that is required for the Syk-, SLP-65-, and PLCgamma2-dependent B-cell receptor (BCR)-induced calcium flux. EFHD2 may also regulate BCR-induced immature and primary B-cell apoptosis. It controls spontaneous apoptosis through the regulation of BCL2L1 abundance. Also, EFHD2 plays a role as negative regulator of the canonical NF-κB-activating branch.

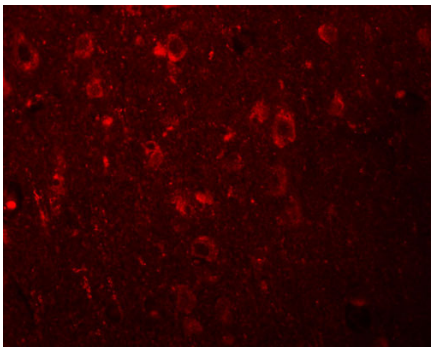
References

Kroczek C, Lang C, Brachs S, et al. Swiprosin-1/EFhd2 controls B cell receptor signaling through the assembly of the B cell receptor, Syk, and phospholipase C gamma2 in membrane rafts. J. Immunol.2010; 184:3665-76.
Avramidou A, Kroczek C, Lang C, et al. The novel adaptor protein Swiprosin-1 enhances BCR signals and contributes to BCR-induced apoptosis. Cell Death Differ.2007; 14:1936-47.
Thylur RP, Kiim YD, Kwon MS, et al. Swiprosin-1 is expressed in mast cells and up-regulated through the protein kinase C beta I/eta pathway. J. Cell Biochem.2009; 108:705-15.

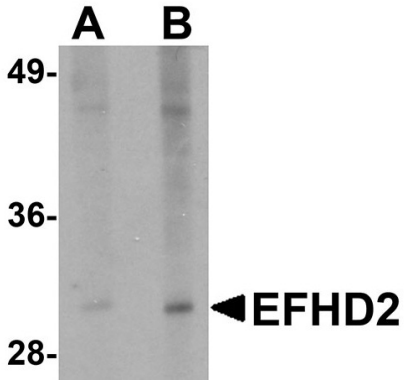
Images



Immunohistochemistry of EFHD2 in human brain tissue with EFHD2 antibody at 5 μg/mL.



Immunofluorescence of EFHD2 in human brain tissue with EFHD2 antibody at 20 μg/mL.



Western blot analysis of EFHD2 in mouse brain tissue lysate with EFHD2 antibody at (A) 1 and (B) 2 碌g/mL.