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EFHD1 Antibody

Catalog # ASC11089

Product Information

Application	WB, IF, E
Primary Accession	Q9BUP0
Other Accession	NP_079478, 20149496
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	26928
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	EFHD1 antibody can be used for detection of EFHD1 by Western blot at 2 - 4 g/mL. Antibody can also be used for immunoflourescence starting at 5 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	80303
Other Names	EF-hand domain-containing protein D1, EF-hand domain-containing protein 1, Swiprosin-2, EFHD1, SWS2
Target/Specificity	EFHD1;
Reconstitution & Storage	EFHD1 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	EFHD1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EFHD1
Synonyms	SWS2
Function	Acts as a calcium sensor for mitochondrial flash (mitoflash) activation, an event characterized by stochastic bursts of superoxide production (PubMed:26975899). May play a role in neuronal differentiation (By similarity).
Cellular Location	Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q9D4J1}

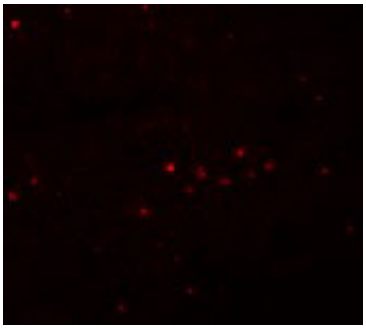
Background

EFHD1 Antibody: EFHD1, also known as Swiprosin-2 or SWS2, is an EF-hand and coiled-coil-containing adaptor protein identified in a subtractive hybridization study using a neuronal cell line established from the cerebellum of an adult p53-null mouse, however further study indicated no difference in normal mice. Its mRNA is widely expressed, with its expression in brain undetectable at embryonic stages, with increasing levels from postnatal to adult development. In situ hybridization showed expression in neurons but not white matter of the cerebellum and cerebrum. EHFD1 is also highly expressed in testes, ovary, and the collecting ducts of the kidney, suggesting that in non-neuronal cells, EFHD1 may be involved in gametogenesis and water-reabsorbtion.

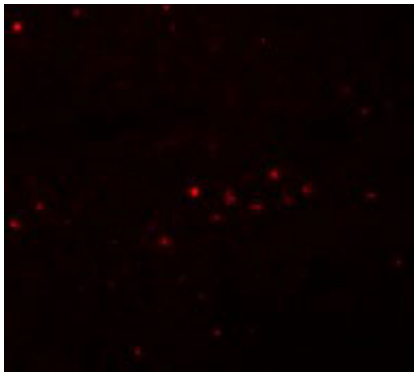
References

Tominaga M and Tomooka Y. Novel genes cloned from a neuronal cell line newly established from a cerebellum of an adult p53-/- mouse. Biochem. Biophys. Res. Comm.2002; 297:473-9.

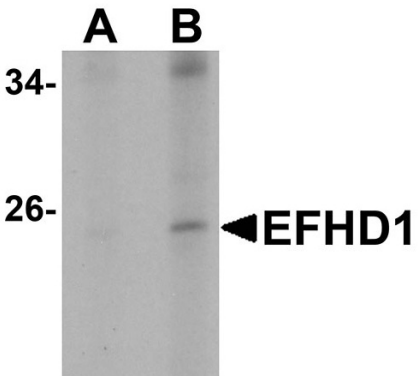
Images



Immunofluorescence of EFHD1 in rat spleen tissue with EFHD1 antibody at 5 µg/mL.



Immunofluorescence of EFHD1 in Rat Spleen cells with EFHD1 antibody at 20 µg/mL.



Western blot analysis of EFHD1 in human spleen tissue lysate with EFHD1 antibody at (A) 2 and (B) 4 碌g/mL.