

EFHD1 Antibody
Catalog # ASC11089**Specification**

EFHD1 Antibody - Product Information

Application	IF, WB
Primary Accession	Q9BUP0
Other Accession	NP_079478 , 20149496
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	EFHD1 antibody can be used for detection of EFHD1 by Western blot at 2 - 4 µg/mL. Antibody can also be used for immunofluorescence starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

EFHD1 Antibody - Additional Information

Gene ID	80303
Target/Specificity	
EFHD1;	

Reconstitution & Storage

EFHD1 antibody can be stored at 4°C for three months and -20°C, 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.

EFHD1 Antibody - 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

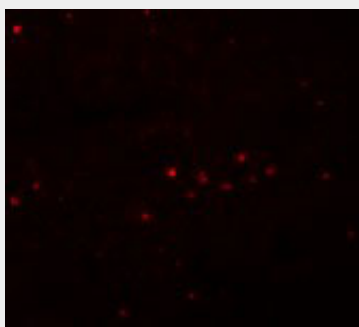
Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q9D4J1}

EFHD1 Antibody - Protocols

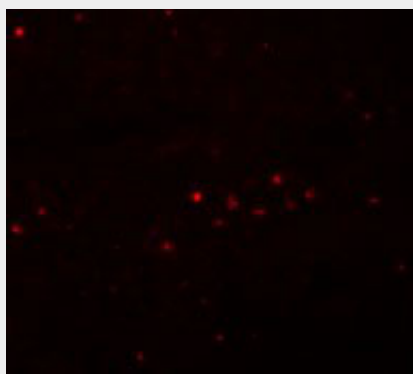
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

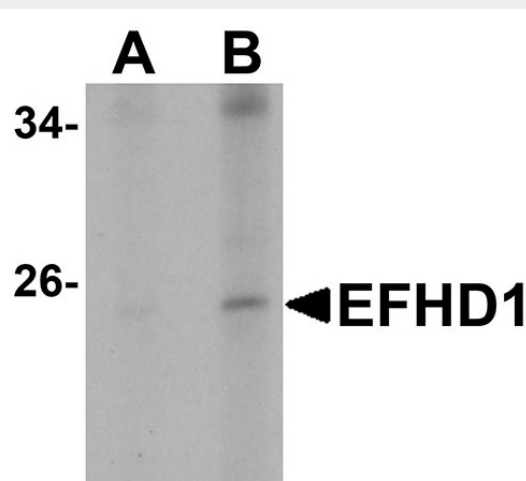
EFHD1 Antibody - Images



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



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



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

EFHD1 Antibody - 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. EFHD1 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-reabsorption.

EFHD1 Antibody - 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.