

# EFHD1 Antibody

Catalog # ASC11089

### Specification

# EFHD1 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Application Notes IF, WB <u>O9BUP0</u> <u>NP\_079478</u>, <u>20149496</u> Human, Mouse, Rat Rabbit Polyclonal IgG EFHD1 antibody can be used for detection of EFHD1 by Western blot at 2 - 4 μg/mL. Antibody can also be used for immunoflourescence starting at 5 μg/mL. For immunofluorescence start at 20 μg/mL.

## EFHD1 Antibody - Additional Information

Gene ID Target/Specificity EFHD1;

80303

#### **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:<a href="http://www.uniprot.org/citations/26975899" target="\_blank">26975899</a>). May play a role in neuronal differentiation (By similarity).

**Cellular Location** 

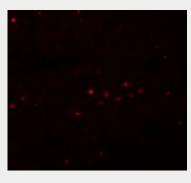
Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q9D4J1}



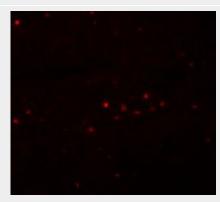
# **EFHD1 Antibody - Protocols**

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

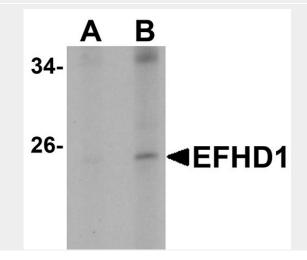
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>
- EFHD1 Antibody Images



Immunofluorescence of EFHD1 in rat spleen tissue with EFHD1 antibody at 5  $\mu$ g/mL.



Immunofluorescence of EFHD1 in Rat Spleen cells with EFHD1 antibody at 20  $\mu\text{g/mL}.$ 





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

#### **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.