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Datasheet for 600-401-AZ4

# EFHD1 Antibody

## Overview

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| **Description:** | Anti-EFHD1 (RABBIT) Antibody - 600-401-AZ4 |
| **Item No.:** | 600-401-AZ4 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, IF, WB |
| **Reactivity:** | Human, Mouse, Rat |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | 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-reabsorption. |
| **Synonyms:** | EFHD1 Antibody, SWS2, MST133, PP3051, MSTP133, SWS2, EF-hand domain-containing protein D1, EF-hand domain-containing protein 1 |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | EFHD1 |
| **Reactivity:** | Human, Mouse, Rat |
| **Immunogen Type:** | Conjugated Peptide |

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| **Immunogen:** | Anti-EFHD1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide near the N-terminus of human EFHD1. |
| **Purity/Specificity:** | Anti-EFHD1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with EFHD1 from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - Q9BUP0<br>• GeneID - 80303<br>• NCBI - NP_079478 |

## Application Details

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| **Tested Applications:** | ELISA, IF, WB |
| **Application Note:** | Anti-EFHD1 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 27 kDa in Western Blots of specific cell lysates and tissues. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:20,000 - 1:40,000 |
| **IF:** | 20 µg/mL |
| **WB:** | 2-4 µg/mL |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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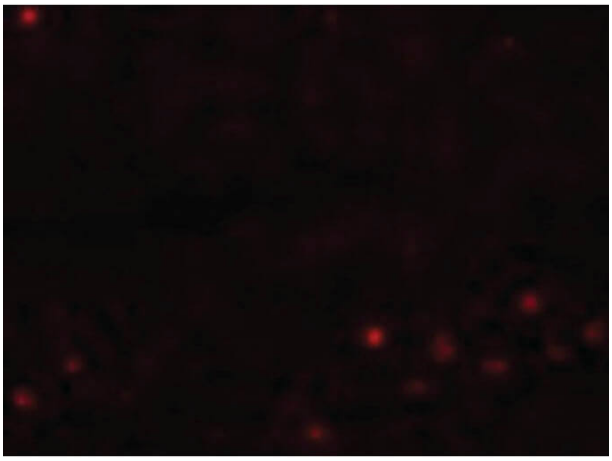
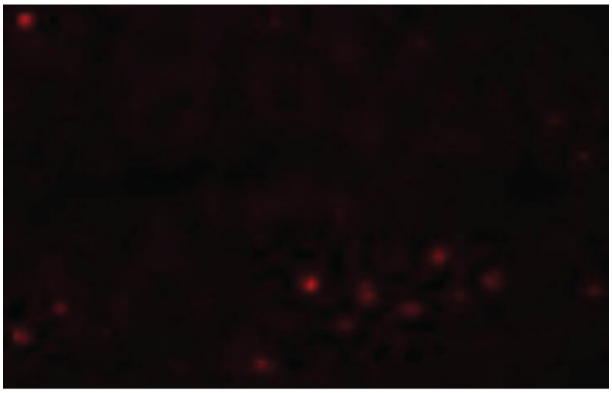
| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |

**Expiration:** Expiration date is one (1) year from date of receipt.

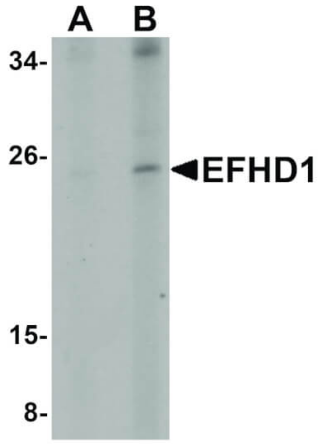
## Images



**Immunofluorescence Microscopy**
Immunofluorescence Microscopy of EFHD1 antibody. Tissue: Rat spleen cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: EFHD1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: EFHD1 is localized in the extracelular exosome. Staining: EFHD1 as red fluorescent signal.



**Immunofluorescence Microscopy**
Immunofluorescence Microscopy of EFHD1 antibody. Tissue: Rat spleen tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: EFHD1 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: EFHD1 is localized in the extracelular exosome. Staining: EFHD1 as red fluorescent signal.




**Western Blot**

Western Blot of EFHD1 antibody. Lane 1: Human spleen tissue lysate with EFHD1 antibody at 2 µg/mL. Lane 2: Human spleen tissue lysate with EFHD1 antibody at 4 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 27 kDa, 25 kDa for EFHD1. Other band(s): EFHD1 splice variants and isoforms.

## Disclaimer