

# Mouse Swiprosin-2 Monoclonal Antibody | anti-EFHD1 antibody

Anti-Swiprosin-2 Antibody

|                               |                      |                                        |                                                         |
|-------------------------------|----------------------|----------------------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA293396</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunofluorescence, Western Blot</b> |
|-------------------------------|----------------------|----------------------------------------|---------------------------------------------------------|

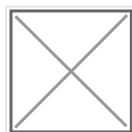
## PRODUCT SYNONYMS

Swiprosin-2; Monoclonal Antibody; Anti-Swiprosin-2 Antibody; SWS2; EF-hand domain-containing protein D1; EF-hand domain-containing protein 1; anti-EFHD1 antibody

## PRODUCT SPECIFICATIONS

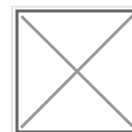
|                                                 |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                 |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                     |
| Clonality                                       | Monoclonal                                                                                                                                            |
| Specificity                                     | Recognizes endogenous levels of Swiprosin-2 protein.                                                                                                  |
| Applicable Applications for anti-EFHD1 antibody | IC (Immunochemistry), IF (Immunofluorescence), WB (Western Blot)                                                                                      |
| Cellular Location                               | Mitochondrion inner membrane                                                                                                                          |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

## IMAGES



### IF (Immunofluorescence)

Dilution: IF WB (1/1000 - 1/2000), IF/IC (1/100 - 1/200) Immunofluorescent analysis of Swiprosin-2 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 degree C in a humidified chamber. Cells were washed with PBST and incubated with a FITC-conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



### WB (Western Blot)

Dilution: WB (1/1000 - 1/2000), IF/IC (1/100 - 1/200) Western blot analysis of Swiprosin-2 expression in mouse spleen (A), rat spleen (B) whole cell lysates.

## ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-EFHD1 antibody | <p>Mouse monoclonal antibody to Swiprosin-2</p> <p>KLH-conjugated synthetic peptide encompassing a sequence of human Swiprosin-2. The exact sequence is proprietary.</p> <p>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).</p> |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## NCBI AND UNIPROT INFORMATION

|             |          |
|-------------|----------|
| NCBI GI #   | 20149496 |
| NCBI GeneID | 80303    |

|                                  |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Accession #                 | <a href="#">NP_079478</a>                                                                                                                           |
| NCBI GenBank Nucleotide #        | <a href="#">NM_025202.3</a>                                                                                                                         |
| UniProt Accession #              | <a href="#">Q9BUP0</a> ; <a href="#">Q9BTF8</a> ; <a href="#">Q9H8I2</a> ; <a href="#">Q9HBQ0</a> ; <a href="#">B2RD83</a> ; <a href="#">E9PFH3</a> |
| Molecular Weight                 | 16,145 Da                                                                                                                                           |
| NCBI Official Full Name          | EF-hand domain-containing protein D1 isoform 1                                                                                                      |
| NCBI Official Synonym Full Names | EF-hand domain family, member D1                                                                                                                    |
| NCBI Official Symbol             | EFHD1                                                                                                                                               |
| NCBI Official Synonym Symbols    | SWS2; MST133; PP3051; MSTP133                                                                                                                       |
| NCBI Protein Information         | EF-hand domain-containing protein D1; swiprosin-2; EF-hand domain-containing protein 1                                                              |
| UniProt Protein Name             | EF-hand domain-containing protein D1                                                                                                                |
| UniProt Gene Name                | <b>EFHD1</b>                                                                                                                                        |
| UniProt Synonym Gene Names       | SWS2                                                                                                                                                |
| UniProt Entry Name               | EFHD1_HUMAN                                                                                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/swiprosin-2-antibody-immunochemistry-immunofluorescence-western-blot-elisa/293396>