

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human/Mouse/Rat                                                                                      |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human, mouse, and rat Sortilin in Western blots.                                             |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>1</sub> Clone # 334708                                                     |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                           |
| <b>Immunogen</b>                                                                                                                                                                                        | Mouse myeloma cell line NS0-derived recombinant human Sortilin<br>Ser78-Asn755<br>Accession # Q99523 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                  |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                         |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                                      |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                           |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| <b>Knockout Validated</b> | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>       | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Sortilin, also known as neurotensin receptor 3, is a 100 kDa transmembrane receptor that is localized both in the endosomal compartment and on plasma membranes. It contains an extracellular/luminal Vps10p (vacuolar protein-sorting 10 protein) domain and is one of five known members of the mammalian Vps10p-D receptor family. A Sortilin propeptide, cleaved by a furin, blocks premature ligand binding to uncleaved Sortilin and functions as a chaperone to facilitate trafficking in the Golgi compartments. Sortilin binds multiple ligands and has diverse functions. Mature human Sortilin extracellular domain shares 92% and 91% amino acid sequence identity with that of mouse and rat Sortilin, respectively.

#### PRODUCT SPECIFIC NOTICES

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